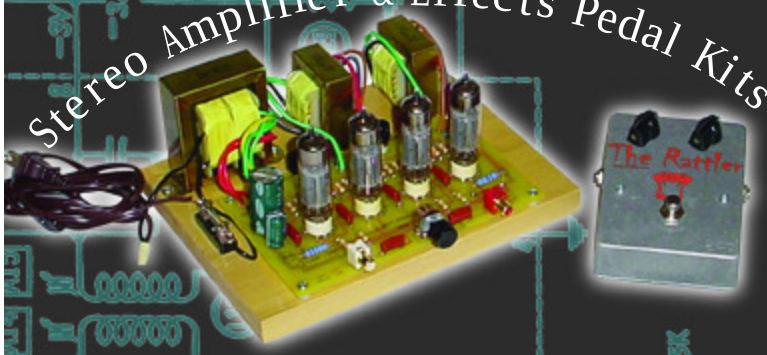
2003 CATALOG

TUBES • PARTS • BOOKS • SUPPLIES

ANTIQUE ELECTRONIC SUPPLY®

20th anniversary edition

Stereo Amplifier & Effects Pedal Kits



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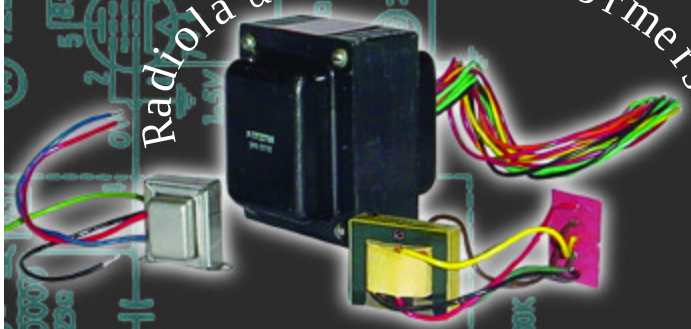

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Leslie Cabinet Parts & Speakers

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Guitar Parts

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Guitar Speaker Cabinets

Made in the USA

Open back covered in black Tolex with black grill cloth. Great replacement or extension cabinet, able to handle 300 watts of speaker power. Cabinet includes handles, corners, rubber feet, jack plate with jack and wires for speaker connection. Speakers sold separately.

Description	Part #	Price
2 x 12	M-2X12-CAB	$235.00
4 x 10	M-4X10-CAB	235.00

Special Pricing on Jensen® Speakers with Cabinet Purchase Only

For 2 x 12 Cabinet	Ohms	RMS/Peak	Part #	Special Price
Mod™ Series 12-50	8/16	50/100	P-A-MOD12-50	$60.00 (for two)
Vintage Series C12N	4/8/16	50/100	P-A-C12N	95.00 (for two)
Vintage Series P12N w/Bell	8/16	50/100	P-A-P12N-BELL	200.00 (for two)

For 4 x 10 Cabinet				
Mod™ Series 10-50	4/8/16/32	50/100	P-A-MOD10-50	92.00 (for four)
Vintage Series C10Q	8/16	35/70	P-A-C10Q	112.00 (for four)
Vintage Series P10R	4/8/16	25/50	P-A-P10R	220.00 (for four)

Mod 12-50

C12N

P12N

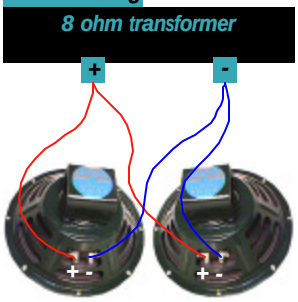
Mod 10-50

C10Q

P10R

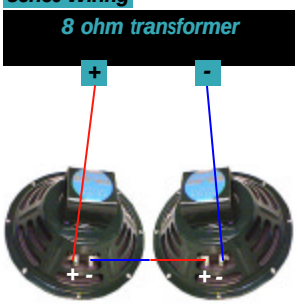
Speaker Cabinet Wiring Diagrams

Parallel Wiring



16 ohm + 16 ohm
= 8 ohm load

Series Wiring



4 ohm + 4 ohm
= 8 ohm load

480-820-5411 • fax: 480-820-4643 or 800-706-6789 (US & Canada)
www.tubesandmore.com

Our Pricing and Quality

We believe we provide competitive and fair pricing while maintaining the quality and integrity of the product. We feel that we can save you money by providing you with a reliable and timely source for your electronic component needs. We charge a handling fee of $2.50 on each order. We have a $10.00 minimum order requirement that can be waived with the understanding that the cost of shipping and handling may exceed the price of the goods purchased. All prices and availability are subject to change. Our 2003 catalog is issued in October 2002 and prices are effective immediately.

Our Guarantee

All items in our catalog are guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit. Please note, opened software cannot be returned. Defective software is returnable for exchange only. Please check and/or test your purchases upon receipt, even if the items are a back-up set for future use, and notify us of any problems within the warranty period.

We reserve the right to charge a restocking fee where no evidence of product failure exists if merchandise is returned after the 10 day period. No returns will be accepted without contacting Customer Service for authorization. (See below)

All non-tube items are warranted for 30 days.

All new tubes (except horizontal amplifier tubes, also known as "linear or sweep tubes") are guaranteed to meet manufacturers specifications for 90 days, except for breakage or when damaged by operation outside manufacturers' specified ratings.

All used tubes are guaranteed to meet minimum industry standards for used tubes and are guaranteed for 30 days. The same exceptions and conditions as noted above for new tubes apply to used tubes.

Linear/Sweep tubes are guaranteed for 10 days, except for breakage or when damaged by operation outside the tube manufacturers' specified ratings. The following is a sample list of what we consider linear/sweep tubes (new and used tubes are included):
6DQ5, 6DQ6A-B/6GW6, 6HB5, 6HF5, 6JB6-A, 6JE6C/6LQ6, 6JG6A, 6JR6, 6JS6C, 6JT6A, 6JU6, 6KD6, 6KG6A/EL509, 6KV6A, 6LF6/6MH6, 6LR6, 6LX6, 6MJ6, 12JB6A, 12JF5, 12JQ6, 12JT6A, 17JQ6-A, 17JT6A, 17KV6A, 20LF6, 21JS6A/23JS6, 22JF6/22KM6, 22JG6A, 22JR6, 22KV6A, 24JE6C/24LQ6, 26LW6, 26LX6, 27LF6, 29LE6, 30JZ6, 30KD6, 31JS6C, 31LQ6, 31LZ6, 35LR6, 36KD6/40KD6, 36LW6, 36MC6, 40KG6A/PL519, 42KN6, and 8950.

ANTIQUE ELECTRONIC SUPPLY™

Please check all linear/sweep tubes upon receipt. If there is a problem, please notify us immediately. After your contacting us, we will take the tube back for evaluation by our technician. We will contact you with a decision about replacement or credit after the evaluation. If the linear/sweep tubes are out of the 10 day warranty period we will not take them back under any circumstances.

Should it be necessary to return merchandise for exchange or credit, please write, fax, e-mail or call with a reason for the return and you will be given a Return Authorization (RA). Customer service is available by phone from 8am-10am and 2pm-4pm, Mon.-Fri. All returns should be sent promptly; all returns must be received by us within 30 days or the RA number will become invalid. The RA number must be placed on the outside of the package being returned in order to assure that your return is handled in a timely manner.

Dealers and Resellers

We suggest you test all tubes or any type of electrical product upon receipt as our warranty does not extend beyond you and ends when you resell the item.

C.O.D. Customers

There is a $6.50 COD fee on all orders shipping UPS COD service. All orders shipping COD require payment by cashier's check or money order unless payment by check has been arranged with us in advance. If we send an order to you COD and the order is returned to us by UPS for any reason other than an error by us, you are still responsible for UPS shipping charges. You will receive a notice stating that the package was returned. It will tell you why the package was returned and how much is owed in shipping fees. We ask that this amount be paid before another order is shipped to you. You can pay the amount when you place a new order by adding it to the COD total, or you can send a check for the amount owed.

Hours of Operation *- Please Note New Saturday Hours*

We accept phone orders from 8:00 am to 5:00 pm (MST) Monday through Friday and from 9:00 am to 1:00 pm the second Saturday of each month (Saturday hours are subject to change, refer to our web site or call for current Saturday hours). Fax orders can be sent 24 hours a day, 7 days a week. You can also browse our products and place orders over the Internet at any time of day or night, by going to our web site at

Ordering Tubes: The Ins and Outs

We have over 3000 tube types which are new and stocked for immediate shipment. We stock both new old stock (NOS) and currently manufactured tubes. If you do not find your tube type listed, please contact us. Many types have equivalent numbers which we can cross reference.

Also available are many used tubes in types that have become scarce or expensive. Tube types normally stocked used, as well as new, are listed on page 16. All used tubes have been tested by us and are guaranteed to meet or exceed the minimum industry standards for used tubes. All have been boxed by us in clean white boxes.

Many tube types are available in different envelope styles and are equivalent electrically. For example, 6A8 is metal, 6A8G is ST shaped large glass and 6A8GT is tubular shaped small glass. See the illustration below for tube styles.

PRICES SHOWN ARE FOR CURRENT STOCK AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. Because most tube types are no longer manufactured, quantities available are limited. Price and availability of tubes with "CALL" under PRICE will be quoted at the time of inquiry. Tubes are designated as "CALL" tubes when there is a low supply or when there are large fluctuations in the market price. Written quotes are good for 15 days. Special quantity pricing is available on some types. Used tube prices are generally about 50% - 60% of the new tube price. We also have some "Down 'n' Dirty" tubes at low prices for the experimenter. Call for price and availability.

Western Electric Tubes

We can supply some original Western Electric tubes. Please contact us for availability and pricing.

The information on tubes in this catalog is for sales information ONLY. If you are interested in selling tubes to us, please call or fax us to request a current bid list.

ST Shape *Shoulder* | ***S Shape*** *Balloon, Globe* | ***Metal*** | ***GT Shape*** *Tubular* | ***Loctal*** | ***Miniature***

Matching & Special Selection

Most output tubes can be supplied in matched multiples at our new reduced price of $1.00 per tube, except for low supply, high demand tubes ("CALL" tubes). Matching on "CALL" tubes varies and will be quoted at time of inquiry. We match transconductance and plate current.

Specific brand, construction, or testing can be supplied for an additional $1.00 per tube.

Our Guarantee

All new tubes (except horizontal amplifier tubes, also known as "linear or sweep tubes") are guaranteed to meet manufacturers specifications for 90 days, except for breakage or when damaged by operation outside manufacturers' specified ratings.

All used tubes are guaranteed to meet minimum industry standards for used tubes and are guaranteed for 30 days. The same exceptions and conditions as noted above for new tubes apply to used tubes.

Linear/sweep tubes are guaranteed for 10 days, except for breakage or when damaged by operation outside manufacturers' specified ratings. See page 3 for a list of linear/sweep tubes.

JJ/Tesla

Tube	1-9	10+
E34L	$9.95	$9.25
E34L-BLUE	11.95	10.95
EL34	9.75	9.10
EL84/6BQ5	8.50	7.25
ECC99	11.95	10.95
KT88	34.95	32.95
KT88-BLUE	38.95	36.95
6L6GC	12.95	12.25
12AT7/ECC81	8.95	7.95
12AU7/ECC82	8.50	7.65
12AX7-S/ECC83	8.50	7.65
12DW7/ECC832	9.95	9.25
300B	85.00	83.95
6922/E88CC	8.75	8.50
7027A	18.95	17.95

Svetlana

Tube	1-9	10+
EL34	$12.95	$12.45
KT88	37.95	34.95
6L6GC	12.95	12.25
12AX7	9.45	8.50
6550C	24.95	23.95

Ei Gold Elites

Ei Elites are gold pinned for optimum electrical contact.

Tube	1-9	10+
EL84-GOLD	$9.95	$9.45
6CG7-GOLD	10.95	9.95
6DJ8-GOLD	8.95	8.45
12AT7-GOLD	9.95	9.45
12AU7-GOLD	9.95	9.45
12AX7-GOLD	9.95	9.45
12BH7-GOLD	11.95	10.95
12DW7-GOLD	12.95	11.95

Ei

Tube	1-9	10+
EL84	$6.95	$6.45
KT90	34.95	33.95
6CA7	13.95	13.45
12AX7	8.50	7.65

Valve Art

Tube	1-9	10+
EL34B	$9.95	$9.25
KT66	29.70	26.75
KT88	27.90	25.10
KT100	29.95	28.95
5AR4/GZ34	12.95	11.25
6L6GC	10.95	10.25
300B	69.95	62.45
845	44.95	40.45
6550A	17.95	17.25

Golden Dragon

Tube	1-9	10+
EL84	$8.95	$8.45
12AX7	10.95	10.25
5881	9.50	8.95

Ruby

Tube	1-9	10+
EL34B-STR	$12.45	$12.20
EL84-R	8.75	7.95
5AR4-C/GZ34	10.45	10.10
5U4G-C	10.95	10.10
6L6GC-STR	11.95	11.25
6V6GT-BC	9.50	8.75

01A (ST)	42.75
0A2	4.10
0A2WA	See 6626
0A3/VR75	5.20
0A4G	18.80
0A5	8.10
0B2	4.95
0B2WA	See 6627
0B3/VR90	2.80
0C2	6.25
0C3-A/VR105	4.65
0D3-A/VR150	4.15
0E3/85A1	6.85
0G3/85A2	3.15
0Y4	4.60
0Z4-A	3.05
0Z4G	3.05
1A1 (ballast)	11.00
1A3	2.80
1A4P	3.30
1A5G	5.90
1A5GT	2.80
1A6	3.70
1A7GT	3.05
1AD2/1BY2A	2.80
1AD4	3.65
1AD5	4.75
1AF4/1AJ4	4.05
1AF5/1AH5	3.50
1AG4	4.85
1AG5	5.40
1AH4	3.40
1AH5	See 1AF5
1AJ4	See 1AF4
1AJ5	3.50
1AN5/DF97	3.60
1AU2	2.80
1AU3/1N2A	2.80
1AX2	2.70
1AY2	7.65
1B1 (ballast)	Call
1B3GT/1G3GTA	4.15
1B4	See 1B4-T
1B4P	3.30
1B4T/951	5.75
1B5	5.00
1B7G	4.50
1B7GT	2.80
1B23	18.40
1B32/532A	11.40
1B59/R1130B	24.75
1BC2A	4.70
1BG2	See 1BG2
1BG2/DY51	2.80
1BH2A	2.80
1BK2/1RK41	2.80
1BQ2/DY802	2.90
1BX2/1X2-B-C	2.60
1BY2A	See 1AD2
1C1 (ballast)	10.70
1C5GT	3.00
1C6	3.15
1C7G	3.05
1C21	18.60
1D1	5.75
1D5GP	5.40
1D7G	3.90
1D8GT	3.25
1D21	27.50
1DG3A	6.00
1DK1	3.90
1DK27	2.80
1DK29	2.80
1DN5	2.90
1E1 (ballast)	Call
1E5G	4.50
1E5GP	3.10
1E7G	4.20
1F1 (ballast)	11.00
1F4	5.40
1F5G	3.40
1F6	3.25
1F7G	4.80
1G3GTA	See 1B3GT
1G4GT	10.60
1G5G	4.40
1G6GT-G	3.70
1H2	2.80
1H4B (ballast)	11.00
1H4G	Call
1H5GT-G	3.25
1H6G	2.80
1H46 (ballast)	11.00
1HM4 (ballast)	11.00
1J1 (ballast)	11.00
1J3/1K3A	5.20
1J6G	8.45
1K3A	See 1J3
1L4/DF92	2.80
1L6	38.00
1LA4	4.15
1LA6	5.65
1LB4	7.00
1LC5	3.10
1LC6	3.25
1LD5	4.00
1LE3/1LF3	4.90
1LF3	See 1LE3
1LG5	3.25
1LH4	3.05
1LN5	4.45
1M5G	2.80
1N2A	See 1AU3
1N3/DM71	6.80
1N5GT/1P5GT	4.65
1N6G	5.40
1N2490 (delay relay)	Call
1P5GT	See 1N5GT
1P28	51.30
1P29	21.90
1P39	Call
1P40	16.50
1P41/924	18.40
1Q5GT	2.70
1Q6	5.40
1R4/1294	2.80
1R5/DK91	5.75
1RK31	3.30
1RK41	See 1BK2
1S2-A/DY87	3.00
1S4	3.10
1S5/DAF91	3.10
1SB6GT	4.40
1T4/DF91	3.05
1T5GT	2.80
1T6	5.40
1U4	4.75
1U5	6.20
1U6	Call
1V/6Z3	5.65
1V2	2.80
1V6	4.40
1W4	10.60
1W5	4.60
1X2-B-C	See 1BX2
1Z1 (ballast)	11.00
1Z2	6.90
2-01C	Call
2A3	68.00
2A3 (RCA)	95.00
2A4G	4.85
2A5	16.30
2A6	6.10
2A7	8.00
2A7-S	7.00
2A10 (ballast)	12.20
2A12 (ballast)	11.00
2AF4	2.70
2AS2-A	4.30
2AS15A	22.50
2AV2/2BA2	3.95
2AZ2	2.80
2B3	6.40
2B4	6.90
2B7	3.80
2B22	140.50
2BA2	See 2AV2
2BJ2	4.60
2BN4A	2.60
2 (ballast)	12.20
2BU2	6.00
2C21/1642	5.85
2C22/7193	7.70
2C26	4.60
2C33/RX233A	11.10
2C34/RK34	4.20
2C36	36.75
2C39A	See 7289
2C39B/6897	See 7289
2C40-A	41.25
2C42	35.60
2C43/464A	26.25
2C44/464	19.70
2C46	27.50
2C51	See 396A
2C51W	See 5670
2C52	20.75
2C53	Call
2CN3A-B	2.80
2CW4/2DS4	5.20
2CY5	2.60
2D21/PL21	3.05
2DS4	See 2CW4
2DV4	8.80
2DZ4	2.80
2E5	11.60
2E22	38.75
2E24	6.65
2E26	6.50
2E30	9.10
2E31	5.30
2E32	7.10
2E36	5.40
2E42	6.40
2EA5/2EV5	3.10
2EG4	8.35
2EN5	2.60
2ER5	2.70
2EV5	See 2EA5
2FH5	2.60
2FQ5A/2GK5	4.30
2FS5	3.80
2FY5	3.10
2G21	14.70
2G22	14.70
2GK5	See 2FQ5A
2GU5	3.80
2H30 (ballast)	Call
2HA5/2HM5	3.50
2HK5/2HQ5	3.00
2HM5	See 2HA5
2HQ5	See 2HK5
2K26	Call
2K28/707B	24.00
2K45	178.50
2V2	5.40
2V3G	2.90
2W3	12.60
2X2A/2Y2/879	2.80
2Y2	See 2X2A
3-2 (ballast)	11.00
3-4 (ballast)	11.00
3-14 (ballast)	11.00
3-16 (ballast)	12.20
3-38A (ballast)	11.00
3-38 (ballast)	12.20
3-200A3/592	Call
3A2	2.60
3A3-A-C/3AW3	4.40
3A4	4.60
3A5/DCC90	4.10
3A8GT	5.40
3A10B (ballast)	Call
3A10 (ballast)	12.20
3A20B (ballast)	Call
3AF4A/3DZ4	2.70
3AL5	2.80
3AT2B	4.85
3AU6	Call
3AV6	2.80
3AW2A	3.90
3AW3	See 3A3-A
3B2	4.90
3B4/DL98	2.80
3B5GT	3.10
3B22/EL1C	29.30
3B24	14.00
3B25	21.00
3B26	13.80
3B28	33.25
3B29	34.50
3BA6	2.90
3BC5/3CE5	2.60
3BE6	2.90
3BF2	4.60
3BM2	2.80
3BN2A	2.80
3BN4A	2.60
3BN6	3.60
3BS2B	See 3BT2
3BT2/3BS2B	6.10
3BU8/3GS8	2.60

3BW2	See 3BT2
3BY6	2.60
3BZ6	3.30
3C4/3E5/DL96	4.85
3C6/XXB	3.10
3C23	35.75
3C24/24G	20.00
3C45/6130	62.00
3CA3	3.15
3CB6/3CF6	2.60
3CE5	See 3BC5
3CF6	See 3CB6
3CN3B	4.15
3CS6	2.60
3CU3A	7.80
3CV3A	6.40
3CX3/3DA3	5.35
3CY3/3DB3	3.40
3CY5	2.60
3CZ3A	5.50
3D21A	36.75
3D21B	36.75
3D21WA/B	Call
3D22	176.40
3DA3	See 3CX3
3DB3	See 3CY3
3DC3	8.30
3DF3-A	5.75
3DG4	5.35
3DH3	4.50
3DHH12	2.80
3DHH13	3.00
3DJ3	See 3CY3
3DK6	2.60
3DR3	11.40
3DS3	10.50
3DT6A	2.60
3DZ4	See 3AF4A
3E5	See 3C4
3E29	See 829B
3EA5	3.80
3EH7/XF183	2.60
3EJ7/XF184	4.85
3ER5/YC95	2.80
3FH5	3.70
3FQ5/3GK5	4.70
3FS5	3.50
3GK5	See 3FQ5
3GS8	See 3BU8
3GW5	2.80
3HA5/3HM5	3.75
3HK5	See 3HA5
3HM5	See 3HA5
3HQ5	5.70
3HS8	3.95
3HTF4 (ballast)	Call
3JC6A	5.35
3KT6	3.60
3LF4	3.20
3MP26	8.30
3Q4	4.95
3Q5GT	3.50
3S4/DL92	Call
3T4A (ballast)	Call
3T4 (ballast)	11.00
3TF4A	Call
3TF4 (ballast)	11.00

3TFV4 (ballast)	11.00
3V4/DL94	7.30
3V4 (ballast)	Call
4-65A/8165	80.00
4-125A/4D21	132.00
4-250A/5D22	Call
4-400C/6775	Call
4A1 (ballast)	11.00
4A10 (ballast)	12.20
4A10S (ballast)	Call
4AU6/4BA6	3.00
4AV6	3.00
4B24/EL3C	95.20
4B31	69.00
4BC5/4CE5	2.60
4BC8/4RHH2	2.70
4BE6	2.80
4BL8/XCF80	2.60
4BN6	2.70
4BQ7A/4BZ7	3.10
4BS8/4BZ8	3.15
4 (ballast)	Call
4BU8	2.90
4BX8	2.80
4BZ6/4JH6	3.90
4BZ7	See 4BQ7A
4BZ8	See 4BS8
4C35A	124.80
4CB6/4DE6	4.00
4CE5	See 4BC5
4CS6	2.70
4CX250B/7203	122.00
4CX250K/8245	51.00
4CX250R/7580	Call
4CX300A/8167	134.00
4CX300Y/8561	Call
4CX350F/8322	135.00
4CY5	2.80
4D21	See 4-125A
4D22	Call
4D32	69.00
4DE6	See 4CB6
4DK6	3.25
4DL4/PC88	3.80
4DT6A	3.30
4E27	44.50
4EH7/LF183	3.05
4EJ7/LF184	5.95
4ES8	2.60
4EW6/4GM6	2.60
4GJ7/4GX7	4.65
4GK5	3.80
4GM6	See 4EW6
4GS7	4.30
4GS8	5.60
4GX7	See 4GJ7
4GZ5	3.80
4H4C (ballast)	Call
4HA5/4HM5	3.30
4HA7/4HC7	3.50
4HC7	See 4HA7
4HK5	2.80
4HM5	See 4HA5
4HM6/4JC6A	4.40
4HQ5	3.60
4HR8/PF86	4.40
4HS8/4KF8	2.80
4HT6	3.30
4JC6A/4JD6	5.20
4JC6A	See 4HM6
4JD6	See 4JC6A
4JH6	See 4BZ6
4KE8	3.80
4KF8	See 4HS8
4KT6	4.65
4LJ8	5.50
4LU6	3.10
4MK8	3.80
4MP12	6.40
4MP26	8.30
4PR60A	191.00
4PR60B/8252	Call
4PR400A	Call
4RHH2	See 4BC8
4X150D/7035	Call
4X150G	70.10
4X150R	See 8296
5-4 (ballast)	12.20
5-11 (ballast)	12.20
5-11V1A (ballast)	Call
5AM8	3.30
5AN8	2.60
5AQ5	5.80
5AR4/GZ34 (US/European)	Call
5AR4-C (Ruby)	10.45
5AR4 (China)	9.95
5AR4 (Sovtek)	11.95
5AR4 (Valve Art)	12.95
T-SSR01 (Solid State Replacement for 5AR4,5U4 and 5Y3)	9.95
5AS4A/5U4GB	14.10
5AS8	2.60
5AT8	2.60
5AU4/5V3A	Call
5AV8	2.60
5AW4	4.75
5AZ4	3.50
5B8	2.80
5BC3-A	5.15
5BE8	3.30
5BK7A	2.90
5BQ7A/5BZ7	2.80
5BR8	See 5CL8A
5 (ballast)	12.20
5BT8	2.60
5BW8	2.90
5BZ7	See 5BQ7A
5C21	See C6J
5CG8	3.80
5CL8A/5BR8	3.80
5CM8	2.80
5CQ8	2.60
5CZ5	3.90
5D22	See 4-250A
5DH8	2.70
5DJ4	5.95
5EA8/5GH8A	4.90
5ES8	3.60
5EU8	2.60
5EW6/5GM6	3.05
5FG7	2.80
5FV8	See 5CL8A
5GH8A	See 5EA8
5GJ7/LCF801	4.65
5GM6	See 5EW6
5GS7	5.45
5GX6/5HZ6	3.05
5GX7	3.30
5HA7	2.80
5HB7	2.60
5HC7	2.70
5HG6	See 5GX6
5HG8	2.60
5HZ6	See 5GX6
5J6/5MHH3	2.70
5J32	Call
5JK6	4.85
5JL6	2.60
5JW8	2.90
5KD8	4.60
5KE8	5.50
5KZ8	4.15
5LJ8	5.70
5MB8	4.65
5MHH3	See 5J6
5MK9	10.25
5R4GA	Call
5R4GB	12.70
5R4GY-A-B	12.00
5R4WGA/B/Y (Chatham)	10.50
5R4WGA-B-Y	6.90
5T4	6.60
5T8	2.60
5U4G/5AS4	Call
5U4GB	See 5AS4A
5U4G-C (Ruby)	10.95
5U4G (China)	10.45
5U4WG	See 5931
5U8	3.90
5U9/LCF201	3.90
5V3A	See 5AU4
5V4G	14.30
5V4GA	11.00
5V6GT	3.25
5W4	4.95
5W4GT	Call
5X4G	5.70
5X8	2.60
5X9/LCF200	5.75
5Y3GT	10.20
5Y3GT (Sovtek)	8.50
5Y3WGT	See 6106
5Y3WGTB	See 6087
5Y4G	Call
5Y4GA	5.40
5Y4GT	5.70
5Z3	Call
5Z4	6.30
6-1H (ballast)	11.00
6-4 (ballast)	11.00
6A3	Call
6A3 (Sovtek)	19.95
6A4	6.85
6A5	35.40
6A6	5.50
6A7	12.40
6A8	Call
6A8GT	Call
6AB4/EC92	4.05
6AB5/6N5	Call
6AB7/1853	5.10
6AB8/ECL80	5.70
6AC5GT	11.60
6AC7/1852	3.80
6AC7WA	See 6134
6AC10	6.10
6AD6G/6AF6GT	17.70
6AD7G	6.30
6AD8/6DC8	4.70
6AD10	8.30
6AE5G/6AF5G	9.90
6AE5GT	7.00
6AE6G	4.50
6AE7GT	Call
6AF3	2.90
6AF4A/6DZ4	4.15
6AF5G	See 6AE5G
6AF6GT	See 6AD6G
6AF9	5.85
6AF11	5.30
6AG5	2.70
6AG5WA	See 6186
6AG7/6AK7	6.85
6AG9	Call
6AG11	4.60
6AH4GT	4.00
6AH6	3.50
6AH6WA	See 6485
6AH7GT	6.70
6AH9	5.95
6AJ4	3.95
6AJ5	3.10
6AJ6	3.40
6AJ8/ECH81	6.10
6AK4	5.10
6AK5/EF95	3.70
6AK5W	See 5654
6AK6	4.00
6AK7	See 6AG7
6AK8/EABC80	Call
6AK10	5.10
6AL3/EY88	6.10
6AL5/6EB5	2.90
6AL5W	See 5726
6AL7GT	4.05
6AL11	5.40
6AM4	3.00
6AM5/EL91	11.00
6AM6/EF91	4.60
6AM8A	6.00
6AN4	Call
6AN5	4.20
6AN5WA	4.00
6AN6	2.80
6AN7A/ECH80	7.80
6AN8A	6.10
6AQ4/EC91	12.20
6AQ5A/6HG5	4.95
6AQ5W	See 6005
6AQ6	2.90
6AQ7GT	2.80
6AQ8/ECC85	14.20
6AR5	9.50
6AR6WA	See 6098
6AR8	4.95
6AR11	3.95
6AS5	2.60
6AS6	3.95
6AS6W	See 5725
6AS7G/6520	10.50
6AS7GA	6.95
6AS7G (Svetlana)	17.95
6AS8	3.60
6AS11	4.85
6AT6/6BK6	2.90
6AT8-A	3.65
6AU4GTA	5.75
6AU5GT	6.00
6AU6A/EF94	4.85
6AU6WA	See 6136
6AU7-A	5.95
6AU8-A/6BH8	4.65
6AV5GA	5.55
6AV5GT	4.25
6AV6/EBC91	3.25
6AV11	Call
6AW6	See 6AU6A
6AW8A	3.95
6AX3	2.80
6AX4GTB	3.90
6AX5GT	4.75
6AX7	8.10
6AX8	4.85
6AY3B	4.50
6AY11	3.00
6AZ5	5.40
6AZ8	9.70
6B3	2.80
6B4G	41.10
6B5	21.50
6B6G	7.70
6B7	6.20
6B8	3.80
6B8G	3.30
6B10	5.20
6BA3	4.85
6BA5	5.50
6BA6/EF93	4.45
6BA6W	See 5749
6BA7	8.65
6BA8-A	4.90
6BA11	5.35
6BC4	6.50
6BC5/6CE5	3.05
6BC7	3.15
6BC8/6BZ8	4.85
6BD4-A	5.40
6BD5GT	3.40
6BD6	2.80
6BD7	4.05
6BD7A/EBC81	7.10
6BD11	Call
6BE3/6BZ3	Call
6BE6/EK90	4.00
6BE6W	See 5750
6BE7/EQ80	3.10
6BF5	3.70
6BF6/6BU6	2.90
6BF7	4.75
6BF8	3.40
6BF11	7.60
6BG6G-GA	8.75
6BH3-A	2.80
6BH6/E90F	3.90
6BH8	See 6AU8-A
6BH11	4.90

6BJ3	2.60
6BJ5	10.25
6BJ6/E99F	3.70
6BJ7	2.70
6BJ8	4.30
6BK4-A-B	9.15
6BK4C/6EL4A	32.50
6BK5	Call
6BK6	See 6AT6
6BK7-A-B	4.75
6BK8/EF83	4.20
6BL4	2.80
6BL6	186.00
6BL7GTA	7.80
6BL8/6LN8	4.85
6BM6	139.30
6BM8/ECL82	9.75
6BM8 (Svetlana)	12.95
6BN4A	3.75
6BN5/EL85	4.30
6BN6/6KS6	4.30
6BN8	8.40
6BN11	6.85
6BQ5	see EL84
6BQ6GTB/6CU6	3.60
6BQ7A/6BZ7	3.00
6BR3/6RK19	2.90
6BR5/EM80	9.95
6BR7	17.50
6BR8A/6FV8	4.30
6BS3A	4.85
6BS8	4.60
6BT4/EZ40	6.95
6BU6	See 6BF6
6BU8/6KF8	3.90
6BV8	5.70
6BV11	5.30
6BW3	5.30
6BW4	3.70
6BW6	10.25
6BW7	4.85
6BW8	2.60
6BW11	5.20
6BX6/EF80	2.70
6BX7GT	10.25
6BY4	63.70
6BY5G	5.40
6BY5GA	3.25
6BY6	4.40
6BY7/EF85	3.50
6BY8	3.00
6BZ3	See 6BE3
6BZ6/6JH6	5.10
6BZ7	See 6BQ7A
6BZ8	See 6BC8
6C4/EC90	4.85
6C4WA	See 6100
6C5	3.05
6C5G	9.90
6C5GT	5.70
6C6	4.40
6C7	5.40
6C8G	3.40
6C9	11.20
6C10	Call
6C15 (delay relay)	19.20
6C20T (delay relay)	Call
6C30 (delay relay)	17.30
6C30T (delay relay)	19.20
6C45T (delay relay)	19.20
6C60 (delay relay)	17.30
6C90 (delay relay)	19.20
6C90T (delay relay)	Call
6C120T (delay relay)	19.20
6CA4/EZ81	12.30
6CA5/6EH5	3.15
6CA7 (European)	50.60
6CA7/EL34 (Mullard)	Call
6CA7/EL34 (US)	Call
6CA7 (Ei)	13.95
6CB5A	5.30
6CB6A/6CF6	3.40
6CD3/6CG3	5.95
6CD6G/6DN6	6.50
6CD6GA/6EX6	6.10
6CD7/EM34	Call
6CE5	See 6BC5
6CF6	See 6CB6A
6CG3	See 6CD3
6CG7/6FQ7	11.10
6CG7 (Ei)	9.95
6CG7 (EI Elite gold pin)	10.95
6CG8-A	4.25
6CH3	See 6CJ3
6CH8	3.30
6CJ3/6CH3	5.60
6CJ5/EF41	Call
6CK3/6CL3	5.20
6CK4	6.95
6CL3	See 6CK3
6CL5	6.10
6CL6	5.60
6CL8A	4.30
6CM3/6DN3	5.40
6CM4/EC86	5.75
6CM6	6.00
6CM7	4.40
6CM8	3.60
6CN6/EL38	Call
6CN7	4.15
6CQ4/6DE4	3.00
6CQ6/EF92	4.15
6CQ8	5.10
6CR6	2.70
6CS6/EH90	4.20
6CS7	4.40
6CT3	11.50
6CT7/EAF42	5.40
6CU5	3.65
6CU6	See 6BQ6GTB
6CU7/ECH42	7.70
6CU8	3.00
6CV7/EBC41	4.20
6CW4/6DS4	14.20
6CW5/EL86	4.85
6CX8/6JA8	4.40
6CY5	5.10
6CY7	3.60
6CZ5	7.75
6D4	6.65
6D6	Call
6D8G	Call
6D10	6.20
6DA4-A/6DM4	2.60
6DA5/EM81	7.00
6DA6/EF89	10.50
6DB5	2.80
6DB6	4.60
6DC6	7.80
6DC8	See 6AD8
6DE4	See 6CQ4
6DE6	2.90
6DE7	5.10
6DG6GT/6W6GT	2.80
6DHH12	2.80
6DHH13	2.80
6DJ8 (Tektronix PN)	3.15
6DJ8/ECC88	8.95
6DK3/6DL3	5.70
6DK6	3.30
6DL3	See 6DK3
6DL4/EC88	5.90
6DL5/EL95	6.30
6DM4	See 6DA4-A
6DN3	See 6CM3
6DN6	See 6CD6G
6DN7	5.00
6DQ3/6DT3	10.00
6DQ3A/6DU3	8.50
6DQ4	4.85
6DQ5	11.30
6DQ6A-B/6GW6	7.20
6DR4	5.00
6DR7	5.00
6DR8/EBF83	2.80
6DS4	See 6CW4
6DS5	2.80
6DS8/ECH83	4.50
6DT3	See 6DQ3
6DT4	5.15
6DT5	3.15
6DT6A	3.00
6DT8	Call
6DU3	See 6DQ3A
6DV4	10.70
6DW4B	See 6CJ3
6DW5	4.50
6DX8/ECL84	4.20
6DY5/EL82	4.60
6DZ4	See 6AF4A
6E5	22.50
6E6	6.85
6E7	8.20
6EA4/6EH4A	Call
6EA5/6EV5	6.85
6EA7/6EM7	6.45
6EA8	6.00
6EB5	See 6AL5
6EB8/6GN8	5.20
6EC4A	7.00
6ED4/ED500	10.25
6EF4/6EJ4-A	Call
6EH4A	See 6EA4
6EH5	See 6CA5
6EH7/EF183	3.95
6EH8	2.70
6EJ4-A	See 6EF4
6EJ7/EF184	2.70
6EL4A	See 6BK4C
6EM5	6.10
6EM7	See 6EA7
6EN4	Call
6EQ7	3.05
6ER5/EC95	5.00
6ES5	2.90
6ES6/6FD6	3.25
6ES8/ECC189	6.85
6ET6/EF98	2.70
6ET7	2.70
6EU7	19.80
6EU8	2.80
6EV5	See 6EA5
6EV7	4.65
6EW6	5.60
6EW7	6.10
6EX6	See 6CD6GA
6EY5/6EZ5	4.70
6EY6	4.70
6EZ5	See 6EY5
6EZ8	3.95
6F4	8.30
6F5/H63	5.10
6F5G	19.70
6F5GT	Call
6F6	9.50
6F6G	Call
6F6GT	13.40
6F7	4.95
6F8G	8.50
6F15	8.45
6F17	6.25
6F33	7.10
6FA7	4.40
6FC7	3.50
6FD6	See 6ES6
6FD7	3.60
6FE5	4.40
6FG5	3.15
6FG6/EM84	6.30
6FG7	4.30
6FH5	4.85
6FH8	12.60
6FJ7	3.15
6FM7	4.15
6FM8	2.60
6FQ5A/6GK5	6.85
6FQ7	See 6CG7
6FS5	3.60
6FV6	2.80
6FV8	See 6BR8A
6FW5	3.90
6FW8	5.25
6FY5/EC97	5.20
6FY7	Call
6G5/6U5	Call
6G6G	5.50
6G11	4.40
6GA7	10.25
6GB3A	6.90
6GB5-A/EL500	5.85
6GB6	9.90
6GC5	3.15
6GD7	4.50
6GE5	6.80
6GE8/7734	28.75
6GF5	4.85
6GF7A	6.40
6GH8A	3.50
6GJ5A	9.65
6GJ7/ECF801	4.40
6GJ8	4.50
6GK5	See 6FQ5A
6GK6	8.60
6GM5	26.75
6GM6	5.60
6GM8/ECC86	4.70
6GN8	See 6EB8
6GQ7	2.90
6GR7	5.50
6GS7	4.15
6GT5-A	17.30
6GU5	3.50
6GU7	6.60
6GV5	6.30
6GV8/ECL85	3.70
6GW6	See 6DQ6A-B
6GW8/ECL86	8.30
6GX6/6GY6	3.90
6GX7	3.80
6GX8/EAM86	10.60
6GY5	5.70
6GY6	See 6GX6
6GY8	2.80
6GZ5	4.95
6H1 (ballast)	Call
6H1N	8.45
6H2N	6.20
6H4-GT	12.60
6H6	2.60
6H6GT	2.90
6HA5/6HM5	4.40
6HA6/6HB6	5.10
6HB5	16.50
6HB6	See 6HA6
6HB7	4.25
6HD5	5.50
6HD7/6HJ7	2.60
6HE5/6JB5	6.60
6HF5	17.10
6HF8	4.75
6HG5	See 6AQ5A
6HG8/ECF86	4.15
6HJ5	4.70
6HJ7	See 6HD7
6HJ8	4.85
6HK5	4.05
6HL8	5.50
6HM5	See 6HA5
6HM6/6HT6	2.70
6HQ5	See 6HA5
6HR5	2.80
6HS5/6HV5A	8.60
6HS8	See 6BU8
6HT6	See 6HM6
6HU6/EM87	5.40
6HU8/ELL80	37.25
6HV5A	See 6HS5
6HZ5/6JD5	5.40
6HZ6	3.00
6HZ8	2.70
6J4	2.80
6J5	5.10
6J5GT	9.00
6J6A/ECC91	3.10
6J6WA	See 6101
6J7/EF36	4.60
6J7G	5.65
6J7GT	5.15

6J8G	9.90
6J9	2.80
6J10/6Z10	7.65
6J11	5.15
6JA5	16.70
6JA8	See 6CX8
6JB5	See 6HE5
6JB6-A	25.25
6JC5	See 6HE5
6JC6A	5.10
6JC8	2.60
6JD5	See 6HZ5
6JD6	4.75
6JE6A	Call
6JE6C/6LQ6	45.50
6JE8	2.90
6JF6	9.60
6JG5	4.05
6JG6A	36.00
6JH5	9.55
6JH6	See 6BZ6
6JH8	5.60
6JK5	7.50
6JK6/6JL6	22.00
6JK8	2.90
6JL6	See 6JK6
6JL8	5.85
6JM6-A	5.80
6JN6	5.10
6JN8	3.15
6JQ6	3.70
6JR6	30.50
6JS6C	44.50
6JT6A	28.00
6JT8/6KR8	4.65
6JU6	13.20
6JU8A	4.85
6JV8	3.50
6JW8/ECF802	5.60
6JX8/ECH84	3.90
6JY8	3.15
6JZ6	6.30
6JZ8	5.50
6K5GT	4.20
6K6GT	4.95
6K7	4.25
6K7G	5.10
6K7GT	4.10
6K8	4.60
6K8G	3.80
6K8GT	5.65
6K11/6Q11	8.75
6KA8	4.85
6KD6	41.25
6KD8/6U8A (Siemans)	3.30
6KD8/6U8A	5.10
6KE6	5.40
6KE8	6.45
6KF8	See 6BU8
6KG6A/EL509	23.75
6KH8/ECLL800	54.80
6KL8	2.80
6KM6	12.50
6KM8	2.60
6KN6	16.00
6KN8/6RHH8	16.90
6KR8	See 6JT8
6KS6	See 6BN6
6KT6	5.70
6KT8	5.60
6KU8	2.60
6KV6A	41.50
6KV8	3.70
6KX8/ECC808	45.50
6KY8A	7.20
6KZ8	3.90
6L4	8.30
6L5G	Call
6L6	20.00
6L6 (EH)	14.95
6L6G	Call
6L6GA	15.60
6L6GB	21.75
6L6GC	48.00
6L6GC (RCA black plate)	Call
6L6GC (JJ)	12.95
6L6GC-STR (Ruby)	11.95
6L6GC (Valve Art)	10.95
6L6GC (Svetlana)	12.95
6L6WGB	See 5881
6L6WXT (Sovtek)	11.95
6L7	3.60
6L7G	Call
6LB6	28.40
6LB8	See 6JT8
6LC8	2.70
6LD20	8.45
6LE8	5.80
6LF6/6MH6	64.00
6LF8	7.20
6LH6A/6LJ6	8.10
6LJ6	See 6LH6A
6LJ8	5.45
6LM8	6.10
6LN8	See 6BL8
6LQ6	See 6JE6C
6LQ8	5.00
6LR6	37.25
6LR8	6.40
6LT8	4.30
6LU6	4.05
6LU8	6.00
6LW6	33.75
6LX6	37.75
6LX8/LCF802	2.90
6LY8	3.95
6M3	12.70
6M11	6.80
6MA6	12.60
6MB8	4.15
6MD8	5.90
6ME6	39.75
6ME8	Call
6MF8	Call
6MG8	4.60
6MH6	See 6LF6
6MHH3	9.20
6MJ6	62.00
6MJ8	5.70
6MK8	5.10
6ML8	8.00
6MN8	5.85
6MQ8	5.50
6MU8	7.80
6MV8	6.30
6N1P (Svetlana)	5.95
6N3	See 6U3
6N03T (delay relay)	17.30
6N4	4.60
6N5	See 6AB5
6N05 (delay relay)	Call
6N05T (delay relay)	Call
6N6G	30.00
6N7	6.00
6N7G	Call
6N7GT	9.20
6N8/EBF80	5.80
6N08T (delay relay)	19.20
6N010 (delay relay)	19.20
6N015 (delay relay)	16.90
6N015T (delay relay)	20.00
6N030 (delay relay)	16.30
6N030T (delay relay)	17.30
6N045 (delay relay)	17.30
6N045T (delay relay)	17.30
6N060 (delay relay)	17.30
6N060T (delay relay)	Call
6N075 (delay relay)	Call
6N090 (delay relay)	20.00
6N0120 (delay relay)	17.30
6N0120T (delay relay)	17.30
6N0180 (delay relay)	19.20
6N0180T (delay relay)	Call
6P5GT	17.10
6P7G	7.30
6Q5G	5.50
6Q7	4.50
6Q7G	Call
6Q7GT	4.70
6Q11	See 6K11
6QL6	8.25
6R4	9.20
6R7	3.15
6R7G/OM4	4.10
6R7GT	3.90
6R8	5.30
6RHH8	See 6KN8
6RK19	See 6BR3
6S2-A/EY87	2.80
6S4A	3.65
6S7	3.60
6S7G	3.80
6S8GT	2.70
6SA7	3.10
6SA7GT	3.25
6SB7-Y	4.40
6SC7	6.65
6SC7GT	Call
6SD7GT	4.15
6SF5	3.80
6SF5GT	4.70
6SF7	4.50
6SG7	5.20
6SG7GT	Call
6SH7	3.40
6SH7GT	5.70
6SJ7	4.25
6SJ7GT	10.00
6SK7	4.70
6SK7GT	4.50
6SK7WA	See 6137
6SL7GT	7.80
6SL7WGT	7.55
6SN7GT-B (full base)	20.00
6SN7GT (brown base)	Call
6SN7GT (China brown base)	7.95
6SQ7	4.70
6SQ7GT	3.90
6SR7	3.65
6SS7	4.50
6ST7	2.80
6SU7GTY/6188	9.55
6SV7	3.50
6SZ7	3.00
6T4	Call
6T7G	5.70
6T8-A	2.80
6T9	3.10
6T10	6.00
6U3/EY80	3.15
6U4GT	3.05
6U5	See 6G5
6U6GT	4.85
6U7G	3.05
6U8A	See 6KD8
6U9/ECF201	2.80
6U10	6.20
6V3-A	2.80
6V4/EZ80	8.90
6V6	15.00
6V6GT (EH)	9.95
6V6G	Call
6V6GT (Mazda)	19.95
6V6GT	18.00
6V6GT-BC (Ruby)	9.50
6V6GT (China)	7.90
6V7G	5.40
6V8	2.60
6V9	2.60
6W4GT	2.70
6W5-G	8.00
6W6GT	See 6DG6GT
6W7G	4.85
6X2/EY51	5.40
6X4/EZ90	5.10
6X4WA	See 6202
6X5GT/EZ35	4.65
6X8-A	4.25
6X9/ECF200	4.75
6Y5	8.90
6Y6G	3.60
6Y6GA	4.40
6Y6GT	4.10
6Y9/EFL200	3.40
6Z3	See 1V
6Z4/84	7.80
6Z5/12Z5	5.50
6Z7G	7.75
6Z10	See 6J10
6ZY5G	5.70
7A4/XXL	5.80
7A5	4.00
7A6	3.10
7A7	4.20
7A8	3.05
7AD7	5.40
7AF7	11.80
7AG7/7AH7	4.60
7AH7	See 7AG7
7AK7	5.00
7AN7/PCC84	3.80
7AU7	2.70
7B4	3.10
7B5	3.30
7B6	4.25
7B7	Call
7B8	3.15
7C4/1203A	3.50
7C5	8.80
7C7	4.00
7DJ8/PCC88	Call
7E5/1201	5.40
7E6	3.00
7E7	2.80
7EK7/7FC7	2.60
7ES8	4.00
7EY6	3.00
7F7	9.20
7F8	9.45
7FC7	See 7EK7
7G7/1232	Call
7G8	5.40
7GS7	4.65
7GV7	4.30
7H7	4.40
7HG8/8HG8	3.75
7J7/7S7	3.95
7K7	7.10
7KY6/9KX6	5.80
7L7	3.05
7MP18	2.80
7N7	9.00
7Q7	3.00
7R7	4.05
7S7	See 7J7
7T7	3.95
7V7/1231	4.20
7W7	3.00
7X6	3.10
7X7/XXFM	4.10
7Y4	3.10
7Z4	3.10
8A8/9A8/9U8	2.60
8AC9	2.80
8AC10	5.20
8AL9	6.40
8AR11	7.10
8AU8A/8BA8A	2.80
8AV11	4.50
8AW8A	7.00
8B8	6.60
8B10	4.30
8BA8A	See 8AU8A
8BA11	6.95
8BH8	5.20
8BM11	4.30
8BN8	2.90
8BN11	5.00
8BQ5	8.75
8BQ11	5.50
8BU11	7.40
8CB11	5.50
8CG7/8FQ7	3.80
8CM7	2.80
8CN7	2.60
8CS7	3.05
8CW5-A/XL86	3.60

8CX8	2.60
8EB8/8GN8	2.90
8EM5	2.80
8ET7	3.40
8FQ7	See 8CG7
8GJ7/PCF801	3.90
8GN8	See 8EB8
8GU7	4.20
8HG8/PCF86	3.95
8HG8	See 7HG8
8JU8A	2.80
8JV8	4.60
8KA8	2.90
8KR8	4.75
8LC8	2.60
8LS6	4.05
8LT8	4.00
8SN7GTB	4.10
8U9	3.60
8X9	3.80
9-4 (ballast)	10.70
9-4D (ballast)	Call
9-7 (ballast)	11.00
9A8	See 8A8
9AH9	7.65
9AK8/PABC80	2.60
9AK10	3.10
9AM10	5.50
9AQ8/PCC85	4.15
9AU7	2.70
9BJ11	4.00
9BR7	2.70
9CL8	2.60
9EA8	2.80
9ED4/PD500	4.15
9GH8A	4.00
9GV8	2.70
9JW8/PCF802	3.80
9KC6	2.80
9KX6	See 7KY6
9KZ8	2.60
9LA6	2.70
9MHH3	6.95
9ML8	8.10
9MN8	7.30
9MP12	3.10
9RAL1	4.15
9RHR2	2.80
9TF2 (ballast)	Call
9U8	See 8A8
9V9/PCL200	4.60
10	80.00
10-4C (ballast)	12.20
10AL11	2.70
10BQ5	5.40
10C8	2.80
10CW5/LL86	3.15
10DA7	3.60
10DE7	4.85
10DR7/10FD7	5.40
10DX8/LCL84	3.80
10E	5.90
10EB8/10GN8	5.20
10EG7	4.85
10EM7	4.85
10EW7	4.15
10F1	8.45
10FD7	See 10DR7
10GF7A	7.80
10GK6	5.80
10GN8	See 10EB8
10GV8/LCL85	3.60
10HF8	3.00
10JA5	Call
10JA8	3.50
10JT8/10LY8	6.10
10JY8/10LZ8	4.95
10KR8/10LB8	6.00
10KU8	2.90
10LB8	See 10KR8
10LE8	2.60
10LT8/10LW8	6.25
10LW8	See 10LT8
10LY8	See 10JT8
10LZ8	See 10JY8
10T10	5.55
10Y (ST)	Call
10Z10	6.60
11AF9	9.55
11AR11	5.10
11B (ballast)	11.00
11BM8	6.00
11BQ11	4.85
11BT11	7.65
11CA11	6.85
11C (ballast)	12.20
11CF11	9.50
11CH11	8.10
11CY7	4.40
11DS5	6.75
11FY7	8.30
11HM7	6.20
11JE8	2.60
11KV8	5.55
11LQ8	5.50
11LT8	3.00
11LY6	11.60
11MS8	6.80
11R3	2.80
11Y9/LFL200	3.05
12-1H (ballast)	11.00
12-4 (ballast)	11.00
12A (ST)	36.00
12A4	3.10
12A5	3.95
12A6	2.90
12A6GT	3.25
12A7	5.80
12A8G	3.30
12A8GT	2.90
12AB5	4.05
12AC5/UF41	6.10
12AC6	3.10
12AC10A	6.60
12AD6/12AG6	2.70
12AD7	Call
12AE6A	3.00
12AE7	4.50
12AE10	6.00
12AF3	4.60
12AF6	3.25
12AG6	See 12AD6
12AH7GT	5.40
12AH8	10.00
12AJ6	4.85
12AJ7/HCH81	4.20
12AL5	4.05
12AL8	2.90
12AL11	4.20
12AQ5	2.60
12AS5	3.15
12AT6/HBC90	2.90
12AT7/ECC81	8.65
12AT7 (China)	8.30
12AT7 (Ei Elite gold pin)	9.95
12AT7 (JJ)	8.95
12AT7 (RCA)	22.25
12AT7WA	See 6201
12AT7WC	8.95
12AU6	3.40
12AU7A/ECC82	14.50
12AU7A (Premium)	Call
12AU7A (RCA)	25.50
12AU7 (China)	8.30
12AU7 (Ei Elite gold pin)	9.95
12AU7 (JJ)	8.50
12AU7WA	See 6189
12AV5GA	3.10
12AV6	3.90
12AV7	5.10
12AW6	2.60
12AX3	2.90
12AX4GTA	2.70
12AX4GTB	2.90
12AX7A(Amperex Bugle Boy)	Call
12AX7A(CHINA)	8.95
12AX7 (China)	6.95
12AX7 (EH)	10.95
12AX7 (Ei)	8.50
12AX7 (European)	11.60
12AX7 (Golden Dragon)	10.95
12AX7 (Ei Elite gold pin)	9.95
12AX7 (Mullard)	Call
12AX7A (RCA)	34.75
12AX7LPS (Sovtek)	10.95
12AX7 (Svetlana)	9.45
12AX7 (Telefunken ribbed plate)	Call
12AX7 (Telefunken smooth plate)	Call
12AX7-A (US)	14.90
12AX7-S (JJ)	8.50
12AX7WB (Sovtek)	10.25
12AY3A	2.90
12AY7	10.00
12AZ7A	5.10
12B4A	4.80
12B7/14A7	4.95
12B8GT	9.65
12BA6/HF93	3.80
12BA7	2.70
12BD6	4.85
12BE3	3.15
12BE6/HK90	5.90
12BF6/12BU6	2.80
12BF11	8.00
12BH7A	18.95
12BH7A (Ei Elite gold pin)	11.95
12BK5	2.80
12BK6	3.00
12BL6	2.60
12BN6	3.00
12BQ6GTA-B	Call
12BR3/12RK19	3.10
12BR7	6.30
12BS3-A	3.80
12BT3	2.80
12BT6	5.40
12BU6	See 12BF6
12BV7/12BY7A	10.80
12BV11	5.75
12BY7A	See 12BV7
12BZ6	11.40
12BZ7	5.10
12C5/12CU5	3.70
12C8	2.90
12C8GT	3.50
12C180 (delay relay)	17.30
12CA5/12EH5	2.60
12CK3/12CL3	3.60
12CL3	See 12CK3
12CN5	2.80
12CR6	2.80
12CS6	2.80
12CT3	5.30
12CT8	3.00
12CU5	See 12C5
12CX6	2.80
12D4/12DM4	2.80
12DA6/UF89	5.70
12DB5	2.60
12D (ballast)	12.20
12DE8	2.70
12DK6	3.50
12DK7	4.85
12DL8	3.05
12DM4	See 12D4
12DQ4	5.20
12DQ6-A	9.35
12DQ6B/12GW6	11.10
12DQ7	4.85
12DS7	4.75
12DT5	2.80
12DT8	7.10
12DU7	2.80
12DV7	2.90
12DV8	4.40
12DW4A	3.25
12DW7/7247	18.40
12DW7 (Ei Elite gold pin)	12.95
12DW7 (JJ)	9.95
12DW8	4.85
12DY8	5.40
12DZ6	5.70
12EA6/12EK6	4.85
12EC8	3.10
12ED5	4.85
12EG6	4.85
12EH5	See 12CA5
12EK6	2.80
12EL6	2.80
12EM6	4.85
12EN6	2.80
12EQ7	2.80
12EZ6	4.85
12F5GT	2.80
12F8	3.25
12F60 (delay relay)	16.30
12FK6	2.80
12FM6	2.70
12FQ7	6.40
12FQ8	8.65
12FR8	11.00
12FX5	3.60
12FX8A	2.90
12GA6	4.60
12GB7	8.45
12GC6	3.05
12GE5	6.30
12GJ5A	5.70
12GN7A/12HG7	5.95
12GT5	3.20
12GW6	See 12DQ6B
12H6	3.40
12HB25	8.30
12HE7	3.90
12HG7	See 12GN7A
12HL7	5.45
12J5	4.50
12J5GT	Call
12J7GT	2.90
12J8	2.80
12JB6A	19.20
12JF5	15.50
12JN6-A	4.85
12JN8	2.70
12JQ6	8.10
12JT6A	5.80
12JZ8	7.30
12K5	3.50
12K7G	5.25
12K7GT	3.80
12K8	2.70
12KL8	2.80
12L6GT	2.90
12L (ballast)	12.20
12MD8	5.45
12N02 (delay relay)	Call
12N03T (delay relay)	17.30
12N05 (delay relay)	Call
12N05T (delay relay)	17.30
12N010 (delay relay)	Call
12N015T (delay relay)	Call
12N030 (delay relay)	Call
12N030T (delay relay)	19.20
12N045T (delay relay)	19.20
12N090 (delay relay)	Call
12Q7G	3.40
12Q7GT	3.05
12R5	2.80
12RK19	See 12BR3
12S7/W142	4.60
12S8GT	2.80
12SA7	5.70
12SA7GT	4.40
12SC7	2.60
12SF5	3.50
12SF5GT	4.85
12SF7	5.10
12SG7	4.85
12SH7	5.30
12SJ7	3.15

12SJ7GT	5.40
12SK7	4.45
12SK7GT	4.75
12SL7GT	4.50
12SN7GT-A-B	7.50
12SQ7	6.75
12SQ7GT	6.60
12SR7/12SW7	3.70
12SR7GT	4.70
12SW7	See 12SR7
12SX7GT	Call
12T10	7.80
12U7	4.40
12V6GT	Call
12W6GT	3.30
12X4	2.80
12Z3	2.70
12Z5	See 6Z5
13A (ballast)	11.00
13B (ballast)	11.00
13C (ballast)	11.00
13CW4	18.40
13D1	6.40
13D (ballast)	11.00
13DE7	2.80
13DR7	4.50
13E (ballast)	11.00
13EM7/15EA7	6.10
13FD7	3.15
13FM7/15FM7	4.05
13GB5/XL500	4.75
13G (ballast)	11.00
13GF7A	8.20
13J10/13Z10	7.20
13J (ballast)	12.20
13JZ8-A	5.40
13L (ballast)	11.00
13S (ballast)	Call
13V10	3.15
13Z10	See 13J10
14A4	4.85
14A5	4.85
14A7	See 12B7
14A (ballast)	11.00
14AF7/XXD	5.70
14B6	5.50
14B8	2.90
14BL11	5.60
14BR11	6.30
14C5	3.25
14C7	3.15
14E6	5.55
14E7	4.05
14F7	4.50
14F8	4.10
14G6/UBC81	3.70
14GT8/14JG8	2.80
14GW8/PCL86	4.40
14H7	3.15
14J7	3.15
14JG8	See 14GT8
14K7	4.15
14L7/UBC41	4.30
14N7	3.35
14Q7	3.30
14R7	3.30
14S7	3.15
14 (ST)	5.90
14W7	4.05
14X7	3.15
14Y4	5.40
15	22.00
15A6/PL83	3.00
15AF11A	3.80
15B (ballast)	Call
15BD11A	5.70
15CW5/PL84	4.70
15DQ8/PCL84	4.00
15E	Call
15EA7	See 13EM7
15EW6	5.65
15EW7	3.15
15FM7	See 13FM7
15FY7	4.75
15HB6	4.85
15KY8A/17DL8	4.10
15LE8	2.60
15MF8	7.65
15R	18.40
16-4 (ballast)	11.00
16A8/PCL82	7.65
16AK9	8.10
16AQ3/XY88	3.90
16BQ11	2.60
16BX11	2.80
16CB28	6.95
16GK6	3.10
16GY5	4.00
16KA6	4.85
16LU8A	9.10
16Y9	8.30
17A8/19EA8A	2.70
17AB10/17X10	5.10
17AX3	2.60
17AX4GTA	2.80
17AY3/17BS3A	3.40
17BE3/17BZ3	3.90
17BF11	7.00
17BH3	4.60
17BQ6GTB	3.80
17BR3/17RK19	5.45
17BS3A	See 17AY3
17BW3	5.50
17BZ3	See 17BE3
17C5/17CU5	2.80
17C8/UBF80	3.50
17C9	6.75
17CK3	4.15
17CT3	4.60
17CU5	See 17C5
17D4A/17DM4A	2.60
17DE4	2.60
17DE5	2.80
17DL8	See 15KY8A
17DM4A	See 17D4A
17DQ6B/17GW6	5.70
17DW4A	4.05
17EW8/HCC85	3.25
17GE5	4.15
17GJ5-A	5.20
17GT5A	5.30
17GV5	4.85
17GW6	See 17DQ6B
17H3	2.80
17HB25	5.00
17JB6A	9.55
17JF6	7.70
17JG6-A	7.40
17JK8	2.60
17JM6	9.45
17JN6	5.80
17JQ6-A	9.10
17JT6A	4.85
17JZ8	7.20
17KV6A	8.45
17KW6/PL508	9.20
17L6GT	5.40
17LD8	8.30
17RK19	See 17BR3
17W6GT	2.80
17X10	See 17AB10
17Y9	9.10
17Z3/PY81	2.80
18A5	2.70
18AJ10	2.70
18DZ8	7.70
18FW6A	3.10
18FX6A	2.80
18FY6-A	2.70
18GB5	4.85
18GD6A	Call
18GV8/PCL85	6.65
18RAL1	2.80
19	5.95
19AU4GTA	3.90
19AU4	See 19AU4GTA
19BG6G-GA	5.50
19BY7/UF85	6.90
19C8	2.80
19CG3	5.10
19CL8A/19JN8	3.30
19D8/UCH81	3.05
19DE3	4.15
19DK3	4.90
19DQ3	6.00
19EA8A	See 17A8
19EZ8	3.00
19FL8/UBF89	4.95
19FX5	4.60
19GQ7	2.80
19HR6	2.80
19HS6	5.40
19HV8	5.50
19J6	2.60
19JN8	See 19CL8A
19KG8	2.90
19MR9	3.50
19Q9	2.80
19T8	6.45
19V8	4.30
19X3	4.60
19X8	2.80
20-4 (ballast)	11.00
20AQ3/LY88	4.75
20EZ7	5.40
20LF6	60.00
21A6/21B6	5.50
21B6	See 21A6
21B (ballast)	11.00
21EX6	4.15
21GY5	5.10
21HB5A	11.60
21JS6A/23JS6	20.25
21JV6	4.85
21JZ6	Call
21KA6	12.90
21KE6	4.60
21LG6A	8.00
21LR8	7.55
21LU8	8.30
22	9.20
22BH3A	2.60
22BW3	5.00
22DE4	5.45
22JF6/22KM6	9.00
22JG6A	9.10
22JR6	6.00
22JU6	7.40
22KM6	See 22JF6
22KV6A	7.00
23-55-E (ballast)	Call
23-55F (ballast)	12.20
23JS6	See 21JS6A
23Z9	6.75
24A	11.40
24BF11	3.80
24G	See 3C24
24JE6A	10.70
24JE6C/24LQ6	20.75
24JZ8	4.75
24LQ6	See 24JE6C
25A6	Call
25A6G	3.90
25A6GT	4.50
25A7GT	5.10
25AC5G	8.20
25AC5GT	4.05
25AV5GA	6.75
25AV5GT	6.75
25AX4GT	3.50
25BB14	3.80
25BK5	2.80
25BQ6GT	Call
25BR3/U329	4.60
25C5	5.60
25CA5	3.80
25CD6GB	6.00
25CG3	6.60
25CK3	3.40
25CT3	2.80
25CU6	9.20
25DK3	3.40
25DK4	3.25
25DL3	8.30
25DN6	3.50
25DQ6A	3.30
25EC6	5.40
25EH5	3.10
25F5	2.80
25HX5	6.60
25JZ8	7.80
25L6GT/25W6	5.30
25T/HK-24	58.60
25W4GT	2.70
25W6	See 25L6GT
25W6GT	4.30
25Y5	3.50
25Z5	4.00
25Z6	6.80
25Z6GT	3.90
26A7GT	7.55
26AQ8/UCC85	3.90
26BK6	5.10
26C2T (delay relay)	19.20
26C3T (delay relay)	Call
26C5 (delay relay)	Call
26C6	6.40
26C8T (delay relay)	Call
26C30T (delay relay)	19.20
26C120 (delay relay)	Call
26C150 (delay relay)	17.30
26D6	5.50
26E6WG	5.70
26HU5	Call
26LW6	20.00
26LX6	19.00
26N02T (delay relay)	17.30
26N03 (delay relay)	19.20
26N03T (delay relay)	19.20
26N010T (delay relay)	Call
26N060 (delay relay)	Call
26 (ST)	Call
27BL8/UCF80	4.60
27GB5/PL500	5.60
27LF6	48.25
27 (ST)	Call
28D7-W	5.75
29GK6	3.10
29KQ6	10.50
29LE6	11.40
30	17.70
30AE3/PY88	6.10
30AG11	3.70
30JZ6	14.20
30KD6	27.50
30MB6	12.00
30 (Special)	47.20
31	14.80
31A3/UY41	7.30
31AL10	5.10
31JS6A	14.80
31JS6C	15.30
31LQ6	16.20
31LR8	7.30
32	6.40
32ET5A	4.85
32HQ7	4.40
32L7GT	4.45
33	6.10
33GT7	4.30
33GY7A	10.25
33JR6	8.10
33JV6	4.70
34	4.30
34CD3/34CE3	3.30
34CE3	See 34CD3
34DK3	7.75
34GD5A	2.90
34R3	2.70
35-51	5.20
35A3	8.45
35A5	4.85
35B5	2.90
35C5	3.25
35D5	5.90
35DZ8	4.85
35EH5	5.40
35GL6	3.80
35HB8	2.80

35L6GT	5.10
35LR6	18.40
35T	98.20
35W4	6.50
35Y4	3.70
35Z3	4.15
35Z4GT	3.30
35Z5GT	5.20
35Z6G	7.35
36	6.10
36AM3B	2.80
36KD6/40KD6	22.50
36MC6	21.00
37	6.70
38	4.15
38A3/UY85	3.30
38HE7/38HK7	8.50
38HK7	See 38HE7
39-44	3.15
40A1 (ballast)	11.00
40B2 (ballast)	11.00
40KD6	See 36KD6
40KG6A/PL519	15.70
40 (ST)	Call
41 (ST)	13.40
42EC4-A	7.10
42KN6	8.95
42 (ST)	19.30
43	6.80
45	80.00
45-4001 (ballast)	Call
45A5/UL41	18.40
45B5/UL84	4.40
45Z3	2.70
45Z5GT	3.95
46 (ST)	21.00
46B1 (ballast)	11.00
47 (ST)	20.75
48	17.70
49	11.60
50A1/D5TF30	32.40
50A1 (solid state replacement)	16.90
50A2 (ballast)	Call
50A5	3.30
50B2 (ballast)	12.20
50B5	2.80
50C5	4.10
50C6G	3.90
50DC4	3.20
50EH5	4.60
50FA5/50FK5	2.80
50FK5	See 50FA5
50GY7	8.30
50HC6	5.40
50HK6	3.30
50HN5	8.30
50L6GT	6.45
50N0120 (delay relay)	Call
50N0180 (delay relay)	Call
50 (ST)	Call
50X6	3.50
50X300 (ballast)	12.20
50Y6GT	3.10
50Y7GT	4.20
52-42D (ballast)	12.20
53	8.75
53HK7	7.20
55	5.50
56	Call
57	5.15
58	7.00
59	13.20
60FX5	3.30
65	5.40
70L7GT	4.40
71A (ST)	36.00
72	4.20
73	5.50
75C1	10.25
75 (ST)	16.50
76 (ST)	14.00
77	3.80
78	5.50
79	3.90
80 (ST)	21.75
80 (tubular)	13.30
81 (ST)	16.40
82 (ST)	16.30
83	Call
83V	Call
84	See 6Z4
85	4.10
85A1	See 0E3
85A2	See 0G3
89Y	3.90
90C1	6.40
95A1	5.50
102-A	82.70
112A	Call
115C2 (delay relay)	19.20
115C3 (delay relay)	17.30
115C3T (delay relay)	16.90
115C5 (delay relay)	19.20
115C10 (delay relay)	19.20
115C10T (delay relay)	19.20
115C15 (delay relay)	19.20
115C15T (delay relay)	19.20
115C29T (delay relay)	19.20
115C30 (delay relay)	17.30
115C30T (delay relay)	17.30
115C45 (delay relay)	19.20
115C45T (delay relay)	16.30
115C60T (delay relay)	17.30
115C90 (delay relay)	17.30
115C90T (delay relay)	17.30
115C120 (delay relay)	17.30
115C120T (delay relay)	20.00
115C180 (delay relay)	17.30
115F60T (delay relay)	19.20
115N02T (delay relay)	17.30
115N03 (delay relay)	19.20
115N05 (delay relay)	17.30
115N05T (delay relay)	19.20
115N07T (delay relay)	19.20
115N08 (delay relay)	19.20
115N010T (delay relay)	17.30
115N020 (delay relay)	19.20
115N030 (delay relay)	19.20
115N030T (delay relay)	17.30
115N045 (delay relay)	19.20
115N045T (delay relay)	17.30
115N060 (delay relay)	18.30
115N060T (delay relay)	17.30
115N075T (delay relay)	17.30
115N090T (delay relay)	17.30
115N0120T (delay relay)	17.30
117L7	5.80
117N7GT	6.60
117P7GT	4.95
117Z3	5.10
117Z4GT	4.50
117Z6GT	5.80
120A (ballast)	11.00
121B (ballast)	11.00
122A (ballast)	12.20
123A (ballast)	Call
125A (ballast)	12.20
150B2	6.95
150C2	See 0A2
150C4	2.80
160L	See 572B
171-A	Call
200R (ballast)	12.20
201A-RG (ss replacement for X201A)	22.50
203A	114.60
210	191.00
211/VT-4C	195.50
211-4 (ballast)	11.00
213A	30.60
227	33.50
232	Call
246	70.80
250R	Call
256	33.20
272A (WE)	Call
274A (WE)	Call
275A (WE)	Call
281	Call
297A (WE)	8.45
300B (WE)	Call
300B (EH)	74.00
300B (JJ)	85.00
300B (Valve Art, nickel anode)	69.95
300B (Sovtek)	69.00
304TH	Call
310A-B (WE)	Call
311A-B (WE)	41.80
313C-CA	4.50
313CC (ballast)	11.00
316A	Call
320R4 (ballast)	12.20
323A-B	10.00
328A (WE)	46.25
331A	See 805
337A (WE)	63.10
350B	Call
350B (WE)	Call
354A (WE)	34.50
371B	21.50
381A (WE)	18.40
386A	10.00
394A	18.40
395A	13.80
296A/2C51 (WE)	24.20
396A/2C51	5.50
399A-B	11.10
400A-B	11.10
401A	See 5590
402A	17.70
403A (WE)	11.40
403B	See 5591
404A	See 5847
408A	See 6028
409A	5.75
412A/6754	8.10
412A (WE)	Call
413B	23.00
415A	4.15
417A (WE)	Call
418A	Call
420A (WE)	64.80
421A (WE)	Call
422A (WE)	Call
426A	7.30
429A	Call
443A (WE)	6.95
446A	6.95
451	See 8020
464	See 2C44
464A	See 2C43
481B	61.10
484	46.00
485	Call
485 (ST)	13.50
501 (delay relay)	16.30
502A	12.00
512AX	11.10
520A	See 5755
522AX	See 6088
526AX	8.30
532A	See 1B32
533AX	10.00
534AX	9.20
548DX	See 6418
572B/160L (US)	Call
577	Call
578	See 8020
579B	31.00
592	See 3-200A3
604/7014	133.80
604L/7015	102.50
610/7723	Call
615/7018	Call
627	114.60
629	86.70
632B	96.90
635/7019	60.00
635L/7020	98.20
635P	70.10
672A	88.50
702A	11.40
703A	Call
705A	11.10
707B	See 2K28
709A	19.30
710/6011	Call
710L/7509A	88.50
713A	5.00
714/7021	51.30
715A-B-C	76.40
716/6855	65.80
717A	18.00
719A	4.85
724B	16.50
734/5544	130.30
734L	89.20
740L	139.30
760/6858	120.00
770L	Call

801-A	99.00
802	12.30
803	27.50
805/331A	102.00
807	15.60
807 (China)	10.35
807W	See 5933
809	39.75
810	123.00
811A (China)	12.70
811A (US)	42.25
812A (China)	19.95
812-A	60.10
812A (Svetlana)	39.95
813 (China)	24.95
813	Call
814	23.00
815	15.30
816	24.40
826	39.50
828	67.00
829B/3E29	Call
836	Call
837	8.10
845	Call
845 (China)	34.95
845 (Valve Art)	44.95
860	Call
864	Call
865	18.40
866A	19.90
866AX	18.40
866JR	Call
868/PJ23	16.50
872-A	55.00
873	Call
874 (ST)	9.65
876	25.50
878A	13.80
879	See 2X2A
884	7.80
885	5.50
917	22.00
918/CE-1C	20.50
919	23.00
920	14.70
921	5.15
923	20.40
924	See 1P41
925	18.40
927/CE25C-D	Call
929	Call
930	9.20
931A-B	37.00
932/1229	4.60
935	104.50
951	See 1B4-T
954	6.30
955	4.60
956	8.75
957	7.35
958	7.30
959	8.30
967	See 5557
991	3.10
1005	13.20
1007	2.80

1026	17.30
1038	See 6438
1201	See 7E5
1203A	See 7C4
1217	2.80
1229	See 932
1231	See 7V7
1232	See 7G7
1236	18.60
1237	37.40
1252	See 6KD8
1259	4.40
1273	5.40
1275	21.75
1280	9.00
1294	See 1R4
1603	Call
1612	5.15
1613	7.50
1614	30.80
1616	7.10
1619	9.20
1620	9.50
1621	9.75
1625	4.85
1626	4.20
1629	9.50
1632	5.40
1633	4.60
1635	4.85
1639	4.70
1641/RK60	8.30
1642	See 2C21
1649	7.10
1852	See 6AC7
1853	See 6AB7
2050 (ST)	16.20
2050A (tubular)	18.00
2050W	16.20
3533	8.30
4001	11.20
4042	Call
4043	Call
4046-A	34.50
4049D	See AH221
4062A	76.40
4121A	17.30
4621	63.70
4652	See 8042
5092/8421	25.50
5516	13.80
5517	13.80
5544	See 734
5545	Call
5557/FG-17	Call
5558/FG-32	51.00
5559/FG-57	46.00
5560/FG-95	69.00
5561/FG-104	Call
5581	16.20
5582	32.00
5590/401A	4.85
5591/403B	Call
5610	5.50
5636	7.30
5641	10.50
5642	7.30
5643	10.50
5644	18.40
5647	15.60
5651A	3.05
5653	12.80
5654/6AK5W	3.50
5656	15.30
5659	2.80
5660	2.80
5661	5.40
5662	4.50
5663	2.90
5670/2C51W	6.60
5672/DL69	5.00
5675	40.90
5676	6.50
5678	3.10
5679	8.30
5685	See C6J-K
5686	8.10
5687	3.80
5690	69.00
5691(black/brown base)	22.50
5691 (red base)	42.75
5692(black/brown base)	31.50
5692 (red base)	Call
5693	14.30
5696-A	3.80
5702	11.10
5703	Call
5704	8.30
5718-A/EC70	7.65
5719	Call
5721/QK209	88.00
5722	Call
5725/6AS6W	2.90
5726/6AL5W	5.70
5727	2.60
5744/6151	11.20
5749/6BA6W	3.30
5750/6BE6W	3.70
5751	9.80
5755/520A	8.10
5763	10.50
5767	70.10
5783	7.30
5784	4.85
5785	4.60
5796	34.50
5814A	5.00
5820	Call
5823/Z900T	25.00
5824	15.60
5825	89.20
5829	13.30
5836	Call
5837	166.30
5839	6.90
5840/6225	10.50
5842	See 5842
5842/417A	11.40
5844	6.10
5845	4.60
5847/404A	18.60
5857	57.40
5861/EC55	92.00
5876A	23.00
5877	82.80
5879	9.70
5881 (Sovtek)	9.75
5881 (Tung Sol)	53.00
5881/6L6WGB	26.75
5881 (Golden Dragon)	9.50
5881WXT (Sovtek)	10.95
5886	72.00
5889	46.00
5893	58.60
5894/AX9903	59.00
5895	34.50
5901	See 5840
5902	7.10
5903	4.60
5905	15.90
5915	3.90
5920/E90CC	8.30
5931/5U4WG	29.75
5932	Call
5933/807W	16.00
5947	9.00
5960	95.60
5961	63.70
5962	2.70
5963/12AU7A	4.75
5964	2.90
5965-A	3.25
5979	51.30
5987/SC968B	14.90
5991	See 8422
5992 (Bendix)	Call
5998	Call
5998A	21.20
6000 (ballast)	Call
6005/6AQ5W	5.75
6011	See 710
6012	80.00
6014	See C1K
6021	4.60
6028/408A	2.80
6045	10.00
6050	6.90
6062/M8096	8.30
6064	4.15
6065	5.50
6072-A	Call
6074	4.60
6080	8.10
6080WC	9.00
6082-A	15.00
6083/AX9909	Call
6084/E80F	33.10
6085/E80CC	52.30
6086	9.20
6088/522AX	Call
6096	See 5654
6097	See 5726
6098/6AR6WA	Call
6099	4.15
6100/6C4WA	Call
6101/6J6WA	3.30
6106/5Y3WGT	9.25
6110	8.30
6111	6.75
6115A	Call
6118	4.05
6130	See 3C45
6132	See CV4055
6134/6AC7WA	8.00
6136/6AU6WA	3.70
6137/6SK7WA	5.90
6140	8.45
6146-A	20.00
6146B/8298A	29.50
6146B (China)	16.95
6146W/7212	Call
6151	See 5744
6153	13.50
6155	96.00
6159B	Call
6161	36.60
6167	29.30
6173	28.00
6177A	Call
6186/6AG5WA	5.40
6188	See 6SU7GTY
6189/12AU7WA	10.00
6197	4.20
6199	Call
6201/12AT7WA	7.90
6202/6X4WA	4.15
6203	9.70
6205	5.10
6211A	Call
6213	8.10
6217	Call
6218	31.90
6225	See 5840
6227/E80L	41.25
6236	Call
6247	12.40
6252	46.00
6263A	40.00
6264	75.00
6265	5.85
6267/EF86	33.25
6267 (Russia)	12.95
6267 (Svetlana)	14.95
6293	23.00
6303A	Call
6328	46.00
6336-A-B	53.00
6342A	166.30
6350	7.65
6354	11.40
6360-A	8.60
6374/EY84	11.10
6384	Call
6386	57.50
6414	10.60
6417	7.10
6418/548DX	Call
6438/1038	8.10
6442	61.10
6476A	36.75
6481	70.10
6483	9.00
6485/6AH6WA	3.75
6489/EA76	8.65
6508	Call
6519	8.10
6520	See 6AS7G
6528-A	69.00
6533	Call
6542	32.00
6550-A (US)	Call
6550A (Valve Art)	17.95
6550C (Svetlana)	24.95
6550WD (Sovtek)	19.95
6550WE (Sovtek)	21.95
6611	5.60
6626/0A2WA	3.60
6627/0B2WA	4.75
6628	5.10
6660/6BA6	3.70
6661/6BH6	6.60
6662/6BJ6	5.40
6663/6AL5	3.30
6664/6AB4	3.00
6669/6AQ5A	3.50
6676/6CB6A	3.30
6677/6CL6	3.15
6678/6U8A	4.85
6679/12AT7	9.45
6680/12AU7A	5.70
6681/12AX7A	16.90
6686/E81L	7.10
6687/E91H	7.30
6688/E180F(gold pins)	10.70
6688/E180F	9.20
6689/E83F	11.60
6754	See 412A
6761	9.20
6775	See 4-400C
6777	80.00
6779/Z803U	94.40
6788	2.80
6802	14.70
6807	143.80
6814	Call
6816	63.70
6829	10.50
6832	6.90
6842	32.00
6844A	29.25
6850	32.00
6855	See 716
6858	See 760
6872	11.40
6877	63.70
6883B/8552	19.20
6884	71.40
6887	10.80
6907	72.00
6909	13.50
6910	18.00
6919	4.60
6922/E88CC	8.90
6922 (JJ)	8.75
6922 (Sovtek)	11.95
6923/EA52	55.00
6931	2.80
6939	27.50
6945	5.70
6948	19.20
6957	9.20
6973	Call
6977/DM160	13.30
7000 (ballast)	Call
7009	63.00
7014	See 604
7015	See 604L
7018	See 615

7019	See 635
7020	See 635L
7022	See 770L
7025	Call
7027-A	53.00
7027A (JJ)	18.95
7035	See 4X150D
7036	7.00
7044	8.10
7054/8077	4.60
7056	6.40
7057	4.60
7058	6.40
7059	5.35
7060	5.70
7061	4.50
7062/E180CC	8.30
7077	Call
7094	Call
7117	28.75
7119/E182CC	14.80
7167	3.80
7189-A	Call
7193	See 2C22
7199	27.50
7203	See 4CX250B
7212	See 6146W
7235	126.00
7236	39.50
7239	50.00
7247	See 12DW7
7258	3.80
7271	114.60
7289/2C39A	34.75
7296	Call
7322	Call
7355	Call
7360	47.25
7363	70.80
7370	9.20
7377/QQE04-5	55.00
7408/6V6GT	Call
7410	14.70
7427	3.10
7475	2.80
7509A	See 710L
7533	Call
7534/E130L	44.00
7536	5.40
7543/E130LF	3.90
7550	6.95
7551	8.30
7554	50.00
7558	8.65
7580	See 4CX250R
7580W	See 4CX250R
7586	30.25
7587	35.50
7591A	70.00
7591A (EH)	24.95
7609	76.40
7643/E80CF	26.25
7683	9.00
7687	29.40
7693	11.10
7695	4.70
7699	18.40
7701	6.40
7703	57.20
7716	3.90
7717	3.80
7722/E280F	18.40
7723	See 610
7724	4.85
7732	4.60
7734	See 6GE8
7735A	Call
7735B	121.30
7738	9.00
7751/E235L	34.00
7768	103.00
7788/E810F	31.75
7801	Call
7802	5.40
7854	89.20
7868	Call
7894	26.00
7895	12.90
7898	7.55
7902	See 734L
7905	13.50
7983	32.00
8000	Call
8011	57.40
8012-A	28.40
8013-A	32.00
8016	7.70
8020/451	57.00
8025-A	Call
8032A	See 6883B
8042/4652	11.10
8056	22.00
8068	61.30
8072	149.00
8077	See 7054
8100	3.10
8102	2.80
8106	11.70
8113/6CY5	47.75
8116	166.30
8117A	Call
8121	96.90
8136	3.25
8156	18.00
8165	See 4-65A
8167	See 4CX300A
8168	Call
8203	23.60
8223/E288C(gold pins)	35.25
8226	Call
8228/ZZ1000	8.65
8233/E55L	41.80
8245	See 4CX250K
8252	See 4PR60B
8255/E88C	13.80
8296/4X150R	Call
8298A	See 6146B
8322	See 4CX350F
8393	Call
8416	13.80
8417	53.00
8421	See 5092
8422/5991	28.75
8423	22.50
8426	5.10
8445	2.70
8458/YL1240	44.10
8462	191.00
8475A	12.70
8477A	12.70
8502	12.70
8505A	76.40
8509	121.30
8532	5.75
8552	See 6883B
8560A	Call
8560AS	Call
8562	See 8255
8596	66.30
8608	27.50
8624	195.50
8627	25.75
8643	122.00
8683	51.00
8727	Call
8753	51.00
8843	Call
8906	89.20
8950	88.00
8964	63.70
8965	23.00
9001	5.80
9002	5.50
9003	5.50
9004	5.50
9005	10.00
9006	3.00
17241	82.80
18046	6.95
186892-9 (ballast)	Call
A2134	Call
A3042	20.00
AC701	Call
AH221/CV5	5.35
AP1260 (ballast)	12.20
AX9903	See 5894
AX9909	See 6083
AZ41	9.15
B5991	See 8422
BH	Call
BK30D (ballast)	12.20
BK42D (ballast)	Call
BK42DG (ballast)	10.70
BK55B (ballast)	12.20
BKV51DJ (ballast)	12.20
BL49DG (ballast)	12.20
BR	15.00
C1A	88.50
C1J-A	See C1K
C1K/6014	99.00
C3J-L	Call
C6H-2	51.00
C6J/5C21	39.00
C6J-K/5685	95.60
C6J-KF	95.60
CE-1C	See 918
CE25C	See 927
CE25D	See 927
CK1121	17.30
CR400-5 (ballast)	Call
CV5	See AH221
CV136	See 6AM5
CV450	See 6CN6
CV2225	See 150B2
CV2486	19.00
CV4055/6132	5.75
CV5331	See 6ES8
D5TF30	See 50A1
DAF40	8.45
DAF41	7.70
DAF91	See 1S5
DAF96	See 1AF5
DC90	8.20
DCC90	See 3A5
DF63	3.90
DF91	See 1T4
DF92	See 1L4
DF96	See 1AF4
DF97	See 1AN5
DG7-32	90.00
DG1672	Call
DK40	11.80
DK91	See 1R5
DL64	5.40
DL69	See 5672
DL92	See 3S4
DL94	See 3V4
DL96	See 3C4
DL98	See 3B4
DLL101	11.80
DM71	See 1N3
DM160	See 6977
DR2000	13.80
DR2010	Call
DR2020	11.10
DR2100	15.70
DR2120	8.70
DY51	See 1BG2
DY80	See 1BX2
DY86	See 1S2-A
DY87	See 1S2-A
DY802	See 1BQ2
E34L (JJ blue glass)	11.95
E34L (Tesla)	9.95
E55L	See 8233
E80CC	See 6085
E80CF	See 7643
E80F	See 6084
E80L	See 6227
E80T	10.25
E81L	See 6686
E82CC	See 6189
E83F	See 6689
E86C	11.40
E88C	See 8255
E88CC	See 6922
E90CC	See 5920
E90F	See 6BH6
E91H	See 6687
E92CC	Call
E99F	See 6BJ6
E130L	See 7534
E130LF	See 7543
E180CC	See 7062
E180F	See 6688
E182CC	See 7119
E235L	See 7751
E280F	See 7722
E288CC	See 8223
E810F	See 7788
E1148	3.50
EA52	See 6923
EA53	96.90
EA76	See 6489
EAA91	See 6AL5
EABC80	See 6AK8
EAF42	See 6CT7
EAF801	8.70
EAM86	See 6GX8
EB41	4.60
EB91b	See 6AL5
EBC33	7.75
EBC41	See 6CV7
EBC81	See 6BD7A
EBC90	5.90
EBC91	See 6AV6
EBF80	See 6N8
EBF83	See 6DR8
EBF89	See 6AD8
EC55	See 5861
EC70	See 5718
EC86	See 6CM4
EC88	See 6DL4
EC90	See 6C4
EC91	See 6AQ4
EC92	See 6AB4
EC95	See 6ER5
EC97	See 6FY5
EC900	See 6HA5
ECC40	12.20
ECC81	See 12AT7
ECC82	See 12AU7A
ECC83	See 12AX7A
ECC85	See 6AQ8
ECC86	See 6GM8
ECC88	See 6DJ8
ECC91	See 6J6A
ECC99 (JJ)	11.95
ECC189	See 6ES8
ECC803S (Tesla)	12.95
ECC804	9.40
ECC808	See 6KX8
ECF80	See 6BL8
ECF82	See 6KD8
ECF83	8.30
ECF86	See 6HG8
ECF200	See 6X9
ECF201	See 6U9
ECF801	See 6GJ7
ECF802	See 6JW8
ECF804	5.95
ECH3	12.50
ECH21	10.00
ECH42	See 6CU7
ECH80	See 6AN7A
ECH81	See 6AJ8
ECH83	See 6DS8
ECH84	See 6JX8
ECH200	See 6V9
ECL80	See 6AB8
ECL82	See 6BM8
ECL84	See 6DX8
ECL85	See 6GV8
ECL86	See 6GW8
ECL113	9.90
ECLL800	See 6KH8
ED500	See 6ED4
EF36	See 6J7
EF37A	11.80
EF40	5.75

EF41	See 6CJ5
EF43	12.70
EF50	3.50
EF54	11.00
EF80	See 6BX6
EF83	See 6BK8
EF85	See 6BY7
EF86	See 6267
EF89	See 6DA6
EF91	See 6AM6
EF92	See 6CQ6
EF93	See 6BA6
EF94	See 6AU6A
EF95	See 6AK5
EF96	See 6AG5
EF97	See 6ES6
EF98	See 6ET6
EF183	See 6EH7
EF184	See 6EJ7
EF800	5.40
EF804	53.10
EF805S	8.00
EFL200	See 6Y9
EFP60	11.10
EH90	See 6CS6
EK90	See 6BE6
EL1C	See 3B22
EL2	Call
EL3C	See 4B24
EL3C-L	51.00
EL6B	51.00
EL6C	63.70
EL16B	Call
EL16F	89.20
EL34	See 6CA7
EL34B-STR (Ruby)	12.45
EL34 (EH)	11.95
EL34 (JJ)	9.75
EL34 (Svetlana)	12.95
EL34B (Valve Art)	9.95
EL34WXT (Sovtek)	11.95
EL38	See 6CN6
EL42	10.60
EL84/6BQ5	20.25
EL84 (Ei)	6.95
EL84 (Golden Dragon)	8.95
EL84 (Ei Elite gold pin)	9.95
EL84 (JJ)	8.50
EL84-R (Ruby)	8.75
EL84 (Sovtek)	7.25
EL85	See 6BN5
EL86	See 6CW5
EL90	See 6AQ5A
EL91	See 6AM5
EL95	See 6DL5
EL500	See 6GB5-A
EL508	21.25
EL509	See 6KG6A
EL802	15.90
EL805	7.30
ELL80	See 6HU8
EM34	See 6CD7
EM71	18.80
EM80	See 6BR5
EM81	See 6DA5
EM84	See 6FG6
EM85	39.20
EM87	See 6HU6
EM1188C	102.00
EMM801	63.70
EQ80	See 6BE7
EY51	See 6X2
EY80	See 6U3
EY82	See 6U3
EY82/6N3	See 6U3
EY84	See 6374
EY86	See 6S2-A
EY87	See 6S2-A
EY88	See 6AL3
EY802	5.30
EZ11	Call
EZ35	See 6X5GT
EZ40	See 6BT4
EZ41	6.40
EZ80	See 6V4
EZ81	See 6CA4
EZ90	See 6X4
FG-17	See 5557
FG-27A	59.00
FG-32	See 5558
FG-57	See 5559
FG-81A	89.20
FG-95	See 5560
FG-104	See 5561
FG-178-A	17.30
G180-2M	30.60
GS10C	61.00
GS10D	10.70
GV3A-1400	17.30
GV3A-2500	16.90
GV5A-1600	17.30
GV5A-2000	17.30
GV5A-2500	19.20
GV5A-3300	19.20
GV6A-1450	19.20
GY501	10.60
GY802	5.30
GZ34	See 5AR4
H63	See 6F5
HABC80	See 19T8
HBC90	See 12AT6
HCC85	See 17EW8
HCH81	See 12AJ7
HCH81/12AJ8	10.60
HF93	See 12BA6
HK90	See 12BE6
HL23/VR130	5.50
HY69	20.75
HY75	Call
HY615	11.60
HY1269	5.10
K23B (ballast)	12.20
K36B (ballast)	12.20
K38B (ballast)	12.20
K42B (ballast)	Call
K49C (ballast)	12.20
K49D (ballast)	Call
K72B (ballast)	12.20
K79B (ballast)	12.20
KL25E (ballast)	Call
KL25H (ballast)	12.20
KL50E1 (ballast)	12.20
KL50E (ballast)	Call
KL50H (ballast)	12.20
KL50S1 (ballast)	12.20
KL75 (ballast)	11.00
KL45 (ballast)	11.00
KT66 (GEC)	168.50
KT66 (Valve Art)	29.70
KT88 (China)	27.90
KT88 (Sovtek)	28.95
KT88 (JJ blue glass)	38.95
KT88 (JJ)	34.95
KT88 (Svetlana)	37.95
KT100 (Valve Art)	29.95
KTW61	7.40
KY21A	56.00
L40CT (ballast)	12.20
L49D (ballast)	10.50
L55C (ballast)	12.20
L55D (ballast)	12.20
L67C (ballast)	Call
LCF200	See 5X9
LCF201	See 5U9
LCF801	See 5GJ7
LCF802	See 6LX8
LCL84	See 10DX8
LCL85	See 10GV8
LF183	See 4EH7
LF184	See 4EJ7
LFL200	See 11Y9
LL86	See 10CW5
LY88	See 20AQ3
M30H (ballast)	Call
M-2057	126.00
M8083	5.10
M8096	See 6062
M8223	4.50
N142	See 45B5
NL809	27.00
NL826	26.60
NL848	21.70
NL950	26.60
NL5094	89.20
NL5870	9.70
NL5870S	12.00
NL5971	Call
OM4	See 6R7G
ORP60	9.40
ORP90	9.40
PABC80	See 9AK8
PC88	See 4DL4
PC95	See 4GK5
PC96	8.45
PC900	See 4HA5
PCC84	See 7AN7
PCC85	See 9AQ8
PCC88	See 7DJ8
PCC89	See 7EK7
PCC189	See 7ES8
PCF80	See 8A8
PCF82	See 8A8
PCF86	See 8HG8
PCF200	See 8X9
PCF201	See 8U9
PCF800-30C15	10.60
PCF801	See 8GJ7
PCF802	See 9JW8
PCF806	See 8GJ7
PCF808	5.30
PCH200	See 9V9
PCL81	9.20
PCL82	See 16A8
PCL84	See 15DQ8
PCL85	See 18GV8
PCL86	See 14GW8
PCL800-30PL13	10.60
PD500	See 9ED4
PEN25/CV65	5.10
PF86	See 4HR8
PFL200	See 16Y9
PJ23	See 868
PL21	See 2D21
PL81	See 21A6
PL83	See 15A6
PL84	See 15CW5
PL95	10.60
PL500	See 27GB5
PL508	See 17KW6
PL519	See 40KG6A
PL5557/PL17	See 5557
P-P109 (ballast)	12.20
PY80	See 19X3
PY81	See 17Z3
PY83	See 17Z3
PY88	See 30AE3
PY800	2.80
PY801	2.80
QK209	See 5721
QQE03-12	See 6360-A
QQE04-5	See 7377
QQV03-20A	14.95
QQV06-40A	12.50
QS150-15	See QS150-15
QS150-45	6.40
R145	10.50
R1130B	See 1B59
R1169	Call
REL-64	9.00
RK34	See 2C34
RK60	See 1641
RK61	12.30
RX233A	See 2C33
SC968B	See 5987
STV85-10	6.40
SU2150A/VU120	5.10
SV83 (Svetlana)	4.95
SV572-30 (Svetlana)	58.80
SW507300 (ballast)	Call
T-40	53.00
TD03-10/DET2	38.20
TJ801K-1 (ballast)	11.00
TJ880	11.10
TYPE 21 (ballast)	4.60
TYPE A (ballast)	12.20
TZ-40	54.90
U329	See 25BR3
UABC80	4.40
UAF42	See 12S7
UBC41	See 14L7
UBC81	See 14G6
UBF80	See 17C8
UBF89	See 19FL8
UBL21	7.75
UCC85	See 26AQ8
UCF12	42.50
UCF80	See 27BL8
UCH4	10.60
UCH21	4.95
UCH42	See 14K7
UCH81	See 19D8
UCL81	11.80
UCL83	2.80
UF9	11.40
UF14	Call
UF41	See 12AC5
UF43	10.60
UF80	2.80
UF85	See 19BY7
UF86	25.50
UF89	See 12DA6
UL41	See 45A5
UL84	See 45B5
UM80	15.90
UM85	31.75
URB-001 (ballast)	12.20
URB-002 (ballast)	11.00
URB-003 (ballast)	11.00
URB-004 (ballast)	12.80
URB-005 (ballast)	11.00
URB-006 (ballast)	10.50
URB-009 (ballast)	10.50
URB-010 (ballast)	11.00
UY41	See 31A3
UY82	10.60
UY85	See 38A3
UY92	10.60
V199	95.60
VP41	10.60
VR53	6.40
VR75	See 0A3
VR90	See 0B3
VR105	See 0C3-A
VR150	See 0D3-A
VT-127A	Call
VU111S	10.60
W142	See 12S7
WD-11	191.00
X12	168.50
X66/CV1099	4.15
X101	6.40
X199	64.00
X201A/301A	Call
XCF80	See 4BL8
XF183	See 3EH7
XF184	See 3EJ7
XL86	See 8CW5-A
XL500	See 13GB5
XXB	See 3C6
XXD	See 14AF7
XXFM	See 7X7
XXL	See 7A4
XY88	See 16AQ3
Y278	Call
Y561	51.00
YC95	See 3ER5
YL1240	See 8458
Z66	5.40
Z803U	See 6779
Z900T	See 5823
ZM1000	29.25
ZM1001	44.75
ZZ1000	See 8228

Solid State Products

50AITR	$16.90
T-SSR01 (Replacement for 5AR4,5U4 and 5Y3)	9.95
201A-RG (Replaces X201A/X301A)	22.50

Used Tubes

01A (ST)	Call	6L6	5.70	25L6G	4.05	232	11.60	5933/807W	5.50
2A3	Call	6L6G	20.00	26 (ST)	9.55	235/251	5.40	6080	5.70
2A3 (single plate)	Call	6L6GC (RCA black plate)	33.70	27 (ST)	5.30	237	25.10	6087	6.70
2A5	7.00	6L6GC	14.50	30	8.60	238	12.50	6146-A-B	11.10
5AR4/GZ34 (US/European)	31.90	6LB6	13.40	41 (ST)	5.50	239/244	5.80	6336-A-B	18.30
5AS4A/5U4GB	8.25	6LF6/6MH6	38.20	42 (globe)	Call	240	26.25	6550-A (US)	23.00
5R4GY/A/B	6.70	6LR6	Call	42 (ST)	10.80	245	Call	6550 ST (US)	46.00
5U4G/5AS4	12.20	6N6G	15.20	45 (ST)	35.40	247	23.00	7027-A	29.50
5V4GA	5.75	6P5G	7.00	46 (ST)	12.70	250	Call	7591A	44.90
5V4G	7.00	6P5GT	6.30	47 (ST)	9.45	256	20.50	8005	87.00
5Y3G	Call	6Q7G	5.70	48	3.25	274A (WE)	Call	8068	29.00
6A7	5.40	6SN7GT-B	13.10	50 (ST)	Call	280	51.90	8950	Call
6AC5G	8.40	6V6G	9.90	71A (ST)	Call	281	30.60	BH	13.30
6AS7G/6520	4.20	6V6GT	Call	75 (ST)	8.20	311A-B	12.70	KT66 (GEC)	Call
6B4G	18.80	10 (ST)	50.00	76 (ST)	7.75	485	11.60	KT88 (British)	116.80
6BK4C/6EL4A	7.45	10Y (ST)	43.00	80 (ST)	10.80	715A-B-C	15.40	KT88 (GEC)	143.80
6CA7/EL34	26.80	12A (ST)	23.50	81 (ST)	8.60	807	7.50	V199	46.70
6E5	9.50	12AX7 (Telefunken ribbed plate)	Call	83	13.30	810	55.00	X199	39.00
6F6G	11.70	12AX7 (Telefunken smooth plate)	Call	112A	30.00	813	23.00	X201A/301A	23.00
6HF5	7.10	12BH7A	7.45	171-A	Call	866JR	11.40	WX-12	Call
6J5G	10.60	15	11.80	210	95.60	872-A	27.50	X199 (long pin)	37.10
6JB6A	13.40	20LF6	35.25	211/VT-4C	100.30	950 (ST)	9.70	X201A/301A (long pin)	Call
6JE6C/6LQ6	24.25	21JS6A/23JS6	12.40	222	10.80	5691 (red base)	25.25	201A-RG (Replacement for X201A/X301A)	22.50
6JS6C	22.25	24A (ST)	5.10	224	7.70	5692 (black/brown base)	22.75		
6KD6	18.70			226	12.60				
6KV6A	24.75			227	12.80	5692 (red base)	Call		
				230	18.70	5881/6L6WGB	19.20		

Tube Boxes

Heavy plain white boxes with dividers to cushion tube. Save 15% by purchasing 100 of any one type, save even more by the case. Minimum order of 10 per size.

Box Size	Fits	lbs/100	Part #	each	Per 100	Case Quantity	Case Price
1" x 1" x 3" (min)	12AX7 etc.	1.0	S-B247	$0.15	$12.75	1500	$168.75
1" x 1" x 3¼" (min)	6BQ5, EL84 etc.	1.0	S-B254	.20	17.00	1500	225.00
1¼" x 1¼" x 3 11/16"	6V6GT, 6SN7, 12SK7	1.5	S-B248	.22	18.70	750	126.75
1⅝" x 1⅝" x 4 15/16"	6L6GC, thin EL34	3.0	S-B249	.28	23.80	650	136.50
1⅞" x 1⅞" x 5⅜"	45(ST), 71A, 6550A	4.0	S-B251	.30	25.50	800	180.00
2¼" x 2¼" x 6⅛"	6550, KT88, 2A3, 807	5.5	S-B252	.33	28.05	500	123.75
3" x 3" x 7"	811A, Globe 250	7.0	S-B253	.42	35.70	300	94.50

Heavy Plain Tube Boxes

No divider for larger industrial and transmitting tubes. Sold individually.

Description	Part #	Price
3" x 3" x 10"	S-B120	$0.65
3" x 3" x 5"	S-B121	.55
4" x 4" x 4"	S-B122	.55

Tube Egg Crate

15" x 15" egg crate packing boxes designed for storing tubes. Supplied unassembled.

Description	Cells/Size	Part #	Price
7 and 9 miniature	289 - ⅞" x 1¾" high	S-B123	$7.36
GT, Metal	121 - 1 5/16" x 2¾" high	S-B124	8.65
Small ST	81 - 1½" x 3" high	S-B125	8.25
Large ST	64 - 1 13/16" x 3¾" high	S-B126	6.75

Cartons for above

15" x 15" x 4"	S-B127	4.50
15" x 15" x 5"	S-B128	4.50

Display Bases

Sold by the dozen.

Description	Part #	Price
Four Pin	G-122	$11.88

Schematic Service

We maintain a huge library of service information for early radios, TVs and other early tube gear. Copies of early radio schematics for known makes & models are available for $7.50. TV schematics or radio schematics where make or model is unknown are available for $19.95. Contact us with your needs, we can probably provide what you're looking for.

"Type S" Socket Adapter Plate

When the hole in the chassis is too large to mount a Type S socket directly to the chassis with a wavy washer, this adapter can be used. 1 3/16" diameter opening in plate, 1 1/2" to about 1 7/8" mounting centers can be used. Socket is secured to plate with wavy washer.

Mounting plate	P-SH12-1-31	$1.50
Wavy washer	P-SH2-104-2	.40

Tube Shields

bayonet style with spring

7 Pin

7 pin, 1 3/8" tall, steel, NOS	P-SS7-157	$0.75
7 pin, 1 3/4" tall, steel, NOS	P-SS7-158	1.10
7 pin, 2 1/4" tall, steel, NOS	P-SS7-194	.95
7 pin, 1 7/8" tall w/base, alum, China	P-SS7-160	1.60

9 Pin

9 pin, 1 1/2" tall, steel, NOS (Eby)	P-SS9-161	1.95
9 pin, 1 1/2" tall w/base, steel, China	P-SS9-162	1.95
9 pin, 1 7/8" tall w/base, steel, China	P-SS9-163	3.95
9 pin, 1 7/8" tall w/base, steel, Elco NOS	P-SS9-166	5.25
9 pin, 1 7/8" tall w/base, alum, China	P-SS9-325	1.95

9 pin, miniature socket, phenolic base, steel shield with base P-ST9-163 6.95

Other Type (NOS) (While Supplies Last!!)

7 pin, 1 3/8" tall, push-on P-SS7-173 $0.65

9 pin 1 7/8" tall, bayonet style with spring, interior is ribbed to dissipate heat. Flexible metal strip to provide contact between shield and base is included. Very high quality Collins.

P-SS9-165 $3.95

Millen Ceramic Octal Socket

Military grade octal socket. Ceramic skirt for long leakage path to chassis, 5,700 VDC rating. Silver plated phosphor bronze contacts. With nickel plated steel mounting saddle. 1 1/8" hole

P-ST8-33008 $24.95

Grid/Plate Caps

Ceramic	1/4" (6K7)	P-SG116	$6.50
Ceramic	3/8" (807)	P-SG110	2.50
Ceramic	7/16" (807)	P-SG111	2.75
Ceramic	9/16" (811, 572B)	P-SG115	2.95

Tube Retainers

For use with guitar amps and applications where EL34/5881 or 6L6GC is suspended upside down in chassis.

S-H141 $2.95

For use with guitar amps and applications where KT88 or 6550 is suspended upside down in chassis.

S-H143 $1.95

Octal Tube Clip

Grips tube base with "teeth" to securely hold tube in place. For use with octal sockets with 1 1/2" mounting centers. Sold individually.

S-H142 $1.75

Yellow Jacket Converters

Yellow Jacket converters are specialized adaptors which permit the use of EL84/6BQ5 power tubes in place of 6V6, 6L6, EL34 and 7591A types. Yellow Jacket converters not only rearrange the pin locations of the tubes but also provide the necessary current limiting on the screens and cathode. Yellow Jackets block the amplifier's grid bias voltage, which configures the EL84/6BQ5 into a class A self adjusting bias circuit. Tubes not included. Manufacturer recommends the JJ EL84/6BQ5. (See page 5 for quantity pricing on these tubes)

Converts 6L6 or EL34	P-SAYJ	$29.95
Converts 6V6	P-SAYJ20	29.95
Converts 7591A	P-SAYJ7591	29.95
JJ EL84 Tube		8.50

[1] Tuning Eye Adapter

6 pin plug-in adapter allows hard to find 6U5 or similar tuning eye tubes to be replaced with 1629 tubes. P-SA314 $17.50

[2] 7591 Tube Adapter

Replace expensive and hard to find 7591 tubes with less expensive 6GM5 tubes. P-SA317 $14.95

[3] WD11 Tube Adapter

Replaces hard to find WD11 tube with less expensive 3D6/1299 tube. P-SA315 $29.95

Octal Keyway Replacement

Do you have valuable octal type tubes that work fine except the keyway has been broken off the base? Fix it with this simple and inexpensive product. Simply clean the remainder of the broken keyway from the base and slip one of these on. Will stay on by itself, or you can use a dab of silicon to attach if you wish. Package of 4 keyway replacements. While Supplies Last! P-STKY-1 $10.00

Octal Relay Socket

Great for experimenting! Use anywhere you would use a normal octal tube socket, but use screw terminal strips to attach wiring. No need to mount socket and solder leads.

P-ST8-108S $9.95

Octal Tube Base

Used for octal plug or coil form 1 1/4" dia. x 13/16" high.

P-SP8-476 $2.95

4-Pin Tube Base

Used for 4-pin plug or coil form 1 3/8"dia. x 1 1/16" high. While Supplies Last! P-SP4-477 $2.95

Multiwire 8 Contact Plug

Amphenol

P-SP8-CP8 $0.95

Listed are sockets we normally stock. Because most of our sockets are surplus and have been in storage for years, some types may show minor signs of corrosion and dirt buildup. All sockets are unused. We may run out of certain types. The figures show the general design and style of the socket type. Due to the many variations of sockets produced by different manufacturers over the years, sockets of the same part number may vary. If you have a specific requirement for your socket, please state this need on your order.

P-ST4-191

P-ST4-192
P-ST4-193
P-ST4-312

P-ST4-205M
P-ST4-205MX

P-ST5-216

P-ST5-181

P-ST6-166

P-ST6-207M

P-ST6-207MX

P-ST7-150
P-ST7-151
P-ST7-202

P-ST7-153

P-ST7-156
P-ST7-157

P-ST7-158

P-ST7-159

P-ST7-195

P-ST7-201

P-ST7-201MX

P-ST7-201MXB

P-ST7-202

P-ST7-204

P-ST7-205L

P-ST7-218

P-ST7-310

P-ST7-311

P-ST7-474

P-ST7-813

P-ST7-814

P-ST7-815

P-ST8-185

P-ST8-325

Crystal Holder Sockets

Red plastic, for crystal holders having ½" centers. Easily mounted. May be used as dual tip jacks on test panels. Package of 4

P-SX-125 $0.40

Socket	Insulator Material	Top Bot. Mnt.	Mounting Centers (")	Chassis Hole Dia.(")	Notes	Part #	Price
4 pin - 300B/811 sizes							
bayonet	C	t	2			P-ST4-312	$4.50
plate	C	b	1 13/16		10	P-ST4-191	4.50
saddle - mip NOS	P	t,b	1 1/2	1 3/16		P-ST4-205M	5.95
saddle - mip NOS	M	t,b	1 1/2	1 3/16		P-ST4-205MX	4.95
4 pin - 211/845 size							
bayonet	C	t	2 7/8	-		P-ST4-192	$7.95
bayonet	C	t	2 7/8	-	1	P-ST4-193	12.95
5 pin - 24/27 size							
plate	C	b	1 13/16			P-ST5-216	$3.95
type S NOS	P	t,b		1 3/16	4	P-ST5-181	3.95
6 pin - 41/42 size							
plate NOS	C	b	1 3/16		10, 18	P-ST6-166	$3.95
type S NOS	P	b,t		1 3/16		P-ST6-207MX	4.95
saddle - plate NOS	P	b	1 1/2 to 1 3/4	1 3/16		P-ST6-207M	5.25
7 pin - 6C33CB size							
plate	C	b	1 7/8 x 1 7/8		10	P-ST7-310	$4.25
7 pin - 813 size							
plate	C	b	1 7/8 x 1 7/8		10	P-ST7-813	$4.25
7 pin - 1625 size							
plates	C	b	1 13/16		10	P-ST7-311	$4.25
7 pin miniature - 12AJ6/12AU6 size							
saddle -plate NOS	C	t	7/8	5/8	3	P-ST7-204	$3.95
saddle -plate NOS	M	t	7/8	5/8	3	P-ST7-201MX	.75
saddle -plate NOS	M	b	7/8	5/8	3	P-ST7-201MXB	.75
saddle -plate NOS	P	b	7/8	5/8	16	P-ST7-205L	.75
saddle -separate plate NOS	C	t(b)	7/8	5/8	9,11	P-ST7-814	.95
saddle -shield base NOS	P	t	7/8	5/8	15	P-ST7-150	3.95
saddle -shield base NOS	M	t	7/8	5/8		P-ST7-151	.75
saddle -shield base NOS	C	t	7/8	5/8		P-ST7-202	1.75
saddle-press shield base NOS	P or M	t	7/8	5/8		P-ST7-153	.95
saddle -tele. shield NOS	M	t	1	3/4		P-ST7-156	.35
saddle -tele. shield NOS	B	t	1	3/4		P-ST7-157	.35
braise -tele. shield NOS	P	t	-	23/32	8	P-ST7-158	.40
wafer NOS	P	b	1			P-ST7-201	.75
pc-half shield, press tails NOS	P	t	-	.687 pin dia.	5	P-ST7-159	.25
pc -stand-off NOS	P	t	-	3/4 tail dia.		P-ST7-195	.35
pc -snap in NOS	P	t	-	-		P-ST7-815	.25
pc NOS	P	t	-	.707 pin dia.		P-ST7-218	.35
8 pin - Loctal Sizes							
molded NOS	P	t	-	1.062	7, 19	P-ST8-185	$2.25
molded	P	t	1 1/8 to 1 1/2	1.0	9	P-ST8-325	4.95

Insulator Materials: C = ceramic M = micalex P = phenolic CX = celanex

Socket Notes

1) Gold Plated Contacts
2) Most have 4 tie lugs on saddle If you specifically desire to have tie lugs on saddle, please specify this on your order.
3) Most have a center shield
4) Mounts to chassis with wavy washer or with adapter plate P-SH12-1-31 (sold separately), using the wavy washer to attach the socket to the adapter plate.
5) Press in contact tails provide Mechanical retention prior to soldering to PC board.
6) Socket rests on shoulder of contact tail, providing an air gap for cooling. For 1/16" circuit boards with bottom circuitry.
7) Mounting hardware not available.
8) As far as we can tell, these sockets are designed to be pressed into the chassis and braised. Buy a few and try!
9) Mounting ring provided allows socket to be mounted from the top or bottom of chassis.
10) Bossed mounting holes and recessed rivets allows sub-panel mounting
11) Separate mounting ring is designed for top mounting but could be used for bottom mounting in thin gauge chassis (<0.06" thick).
12) P-ST8-800 and P-ST8-801 are identical except for contact style P-ST8-800 has a split circular contacts while P-ST8-801 has split straight contacts.
13) Top or bottom soldering
14) Bottom soldering only
15) Limited Supply
16) Solder lugs
17) No solder lugs
18) Wire wrap lugs
19) Keyed hole
20) Oval
21) Rectangular
22) Shield collar
23) Unique molded saddle allows for off center mounting of socket. Can be mounted closer to edge of chassis or other components
24) 6-32 threads

Socket	Insulator Material	Top Bot. Mnt.	Mounting Centers (")	Chassis Hole Dia.(")	Notes	Part #	Price
8 pin octal - EL34/6SL7 size							
mip	P	b	1 1/2	1 1/8		P-ST8-485	$5.95
saddle - plate, black	P	b	1 1/4	1		P-ST8-488	4.95
saddle - plate	C	b	1 1/2 to1 13/16	1 5/16		P-ST8-33008	24.95
saddle - plate, black NOS	P	b	1 1/2	1 1/8		P-ST8-209M	3.95
saddle - mip	M	t,b	1 1/2	1 3/16		P-ST8-209MIP	5.95
saddle - ring mount	C	t,b	1 7/16	1 1/16 to 1 1/4	9, 12	P-ST8-800	2.50
saddle - ring mount	C	t,b	1 7/16	1 1/16 to 1 1/4	9, 12	P-ST8-801	2.50
saddle - ring mount	C	t,b	1 7/16	1 1/16 to 1 1/4	9, 12	P-ST8-802	8.95
saddle NOS	CX	b	1 1/4	1		P-ST8-808	3.95
type S NOS	P	t		1 3/16	4	P-ST8-311	3.95
all molded NOS	P	b	1 3/8	1 1/16		P-ST8-482	.95
wafer NOS	P	b	1 1/2		20	P-ST8-127	2.25
wafer NOS	P	b	1 1/2		21	P-ST8-128	.95
wafer NOS	P	b	1 5/16			P-ST8-209W	.65
pc - stand-off	C	t	1	1 tail dia.	6	P-ST8-193	2.95
pc - stand-off - gold pins	C	t	1	1 tail dia.	6	P-ST8-193G	3.50
pc - mount NOS	P	b		1 1/16 tail dia.		P-ST8-815	2.50
saddle, plate	M	b	1 1/2	1 1/8	24	P-ST8-487	4.95
high voltage rectifier	M	b	2 1/32	1 5/8		P-ST8-001	4.50
9 pin magnoval - EL509/6KG6A size							
all molded NOS	C	t,b	1 7/16 - 1 9/16	7/8 t, 1 1/4 b		P-ST9-509	$5.25
9 pin miniature - 12AX7/12BH7 size							
saddle -mip	P	b	1 1/8	3/4		P-ST9-100	$4.95
saddle -plate NOS	P	b	1 1/8	3/4	15, 17	P-ST9-211M	4.95
saddle -shield base	P	t	1 1/8	3/4		P-ST9-213	3.50
saddle with shield	C	t	1 1/8	7/8		P-ST9-162	2.75
saddle with steel shield	P	t	1 1/8	3/4		P-ST9-163	6.95
saddle -molded	M	t,b	7/8 or 1	3/4	23	P-ST9-265	.95
saddle -shock mount NOS	M	b	1 1/4	3/4		P-ST9-137R	2.25
saddle	C	t,b	1 1/8	7/8	9, 11	P-ST9-511	1.95
wafer NOS	P	b	1 5/16		21	P-ST9-149	.65
wafer NOS	P	b	1 1/8		20	P-ST9-150	.75
wafer NOS	P	b	1 5/16		20	P-ST9-516	1.25
pc - stand-off, white	C	t	-	13/16 tail dia.	6	P-ST9-214	2.50
pc -stand-off, white, gold pin	C	t	-	13/16 tail dia.	6	P-ST9-214G	3.50
pc -stand-off, white	P	t	-	3/4 tail dia.	6	P-ST9-215	3.25
pc -stand-off NOS	P	t	-	9/16 tail dia.	6	P-ST9-215B	3.95
pc mount -split tail NOS	P	t	-	.781 tail dia.		P-ST9-218	.75
pc mount wafer-split tail NOS	P	t	-	.781 tail dia.		P-ST9-217	1.25
pc mount -stand off, Black	P	t	-	13/16 tail dia.	6	P-ST9-219	3.25
pc -snap in NOS	M	t			13	P-ST9-521	.50
pc -snap in NOS	P	t			14	P-ST9-520	.50
pc -snap in NOS	M	t			13	P-ST9-522	.50
9 pin compactron - 6KV6/6JE6 size							
saddle - plate NOS	P	b	1 5/16	1		P-ST9-254M	$2.95
pc - stand-off NOS	P	t		15/16 tail dia.	6	P-ST9-215-1	.95
pc NOS	M	b	1	5/16 tail dia.	6	P-ST9-215-2	.95
11 pin octal							
saddle MIP	P	b	1 1/2	1 1/8		P-ST11-MIP	$3.50
type S	P	b	-	1 1/4	4	P-ST11-212	3.50
12 pin compactron - 6LF6/20LF6 size							
pc - stand-off, black NOS	P	t	-	1 1/16 tail dia.	6	P-ST12-114	$1.95
pc - press tails NOS	P	t	-	1.063 tail dia.	5	P-ST12-176	.95
Nuvistor Sockets							
pc, 5 pin NOS	M	t	1/2" tabs	-		P-STN-472	$0.95
ring type, 7 pin NOS	P	t	-	-	7, 22	P-ST7-474	3.95

Transistor Sockets
4 lead, in-line P-STR-002 .95

P-ST8-001

P-ST8-127

P-ST8-128
P-ST8-209W

P-ST8-193

P-ST8-209M

P-ST8-209MIP

P-ST8-311

P-ST8-33008

P-ST8-482

P-ST8-485

P-ST8-487

P-ST8-488

P-ST8-800

P-ST8-801

P-ST8-802

P-ST8-808

P-ST8-815

P-ST9-100

P-ST9-137R

P-ST9-149

P-ST9-150

P-ST9-162

P-ST9-163

P-ST9-211M

P-ST9-213

P-ST9-214

P-ST9-215

P-ST9-215-1

P-ST9-215-2

P-ST9-217

P-ST9-218

P-ST9-219

P-ST9-254M

P-ST9-265

P-ST9-509

P-ST9-511

P-ST9-516

P-ST9-520

P-ST9-521

P-ST9-522

P-ST11-MIP

P-ST11-212

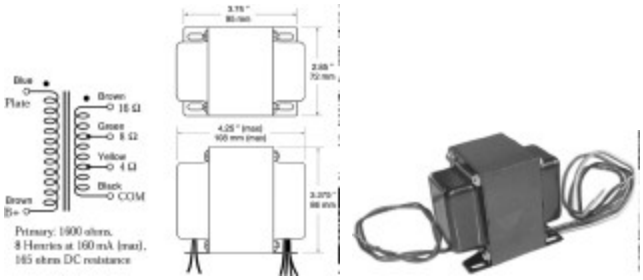
P-ST12-114

P-ST12-176

P-STN-472

one electron

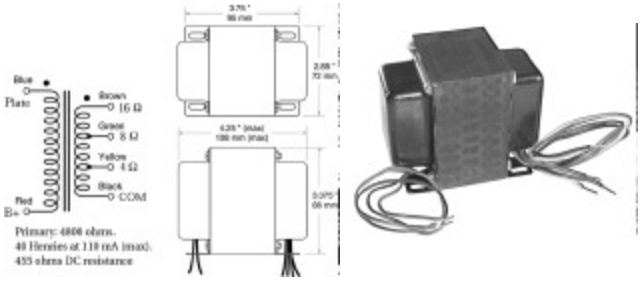
Single Ended Output & Power Transformers
All Designs by John Atwood
For complete specifications, please visit www.one-electron.com/trans.html



P-TUBT-1- Single Ended Output Transformer

The UBT-1 is a low-impedance single-ended transformer intended for parallel combinations of tubes running at B+ voltages of 250 to 325 volts, such as: two or three EL34s (triode-connected), three 2A3s, two 300Bs, two 6AS7s etc., as well as single sweep tubes run in "enhanced-triode" mode, resulting in 10 to 15 watts of output power. The UBT-1's low impedance gives an exceptionally broad frequency range of 10Hz to over 75KHz (at 1 watt). This transformer has been the basis for excellent-sounding single-ended amps, and is notable for it's clean, detailed sound. 6.1 lbs

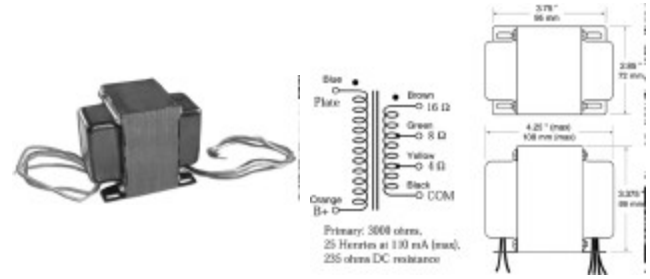
$89.95



P-TUBT-2- Single Ended Output Transformer

The UBT-2 is the same size and power (15 watts) as the UBT-1, but has a higher primary impedance suitable for single tubes running at B+ voltages of 400 to 500 volts, such as: 50, WE 300B, 572-3, etc. The trade-off of a higher impedance transformer is worse bandwidth, but additional interleaving was added in the UBT-2 to extend the frequency range from 10Hz to over 55KHz (at 1 watt). The UBT-2 has also been successfully used as a choke load for shunt-feed output stages. Plate supply voltages over 600 volts are not recommended. 6.1 lbs

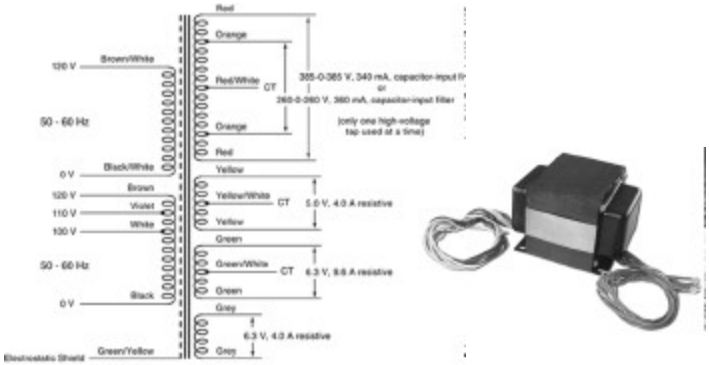
$99.95



P-TUBT-3- Single Ended Output Transformer

The UBT-3 is the same size and power (15 watts) as the UBT-1 but has a primary impedance suitable for single or paralleled tubes running at B+ voltages of 300 to 400, such as: 2A3, WE 300B, 50 etc. The frequency response is from 10Hz to over 60KHz (at 1 watt). The 3K primary impedance offers lower distortion at only slightly less power in designs using the commonly-specified 2.5K transformers. 6.1 lbs

$99.95



P-TBFT-1B- Power Transformer

The BFT-1B was designed to power a stereo amplifier using UBT-1s in each channel but will also power an 80 watt push-pull tube amplifier. The BFT-1B is slightly larger than earlier versions of the BFT-1, allowing lower flux density and cooler operation. The tapped high-voltage windings and three filament windings provide flexibility in design. An electrostatic shield between the primaries and secondaries reduces power-line noise coupling. The primary arrangements allows use on virtually any power grid in the world. Overall dimensions: 4.5" x 3.75" x 5.875" (11.4 x 9.5 x 14.9 cm) 16 lbs

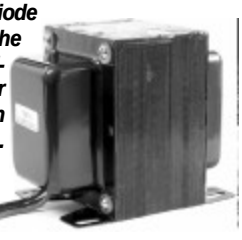
$149.00

PRC-1 & PRC-2- Audio Chokes

The PRC-1 and PRC-2 audio chokes were designed for shunt-feed single-ended output applications, but are also useful where quality inductive loads are needed or as high-quality filter chokes. They have the same overall dimensions and use the same high-quality M6 laminations as the UBT transformers. Each have two identical windings, allowing series and parallel combinations:

Type	*Connection*	*Inductance*	*DC Current*	*Resistance*	*Impedance*
PRC-1	*parallel*	*5.5H*	*230 mA*	*32*	*1K*
	series	*22H*	*115 mA*	*128*	*4K*
PRC-2	*parallel*	*12H*	*150 mA*	*76*	*2.3K*
	series	*48H*	*75 mA*	*304*	*9K*

The table shows the maximum recommended load impedances when used as a shunt-feed choke. As with traditional class-A triode amplifiers, the driving impedance is about ½ the load impedance. The recommended load impedances are based on a -1dB response at 20Hz; for better low frequency response, use a choke with higher recommended load (higher inductance). 6.0 lbs.



P-RC-1	*$54.95*
P-RC-2	*54.95*

Transformer and Choke Replacements for Fender® Amplifiers

Replacement transformers and chokes for Fender® amplifiers. Highest quality replacements available! All made entirely in the United States to the fully rated original Fender® specifications. Excellent drop-in replacements for your amplifier

Fully Rated Power Transformer Replacements for Fender® Amplifiers

Made precisely to the original Fender® specifications. Drop-in replacements for vintage and current Fender® reissue amps. Made in the USA.

Part #	Wattage	Replacement for:	Price
P-TF22772	12	Princeton®, Princeton Reverb®, Champ®, Vibro Champ® and Tweed Deluxe® Equivalent to #125P1B & #022772	$49.95
P-TF41316	25	Deluxe Reverb® and Deluxe® Equivalent to #125P23D & #041316	59.95
P-TF22723	35	Vibrolux® Equivalent to #125P26A & #036483 & #022723	64.95
P-TF22798	50 with rectifier tap	Super Reverb®, Pro Reverb®, Bandmaster® and Tweed Bassman® Equivalent to #125P5D & #022798	79.95
P-TF22814	50	Bassman®, Concert® and Pro® Equivalent to #125P7D & #022814	64.95
P-TF22756	100	Twin Reverb®, Dual Showman® and Bassman 100® Equivalent to #125P34A & #022756	79.95

Replacement Output Transformers for Fender® Amps

Superior output transformers for optimal performance.

Part #	Wattage	Ohms	Replacement for:	Price
P-TF22905	8	4	Champ®, Vibrochamp® and Bronco® Equivalent to #125A35A & #022905	$27.95
P-TF22913	12	8	Princeton Reverb®, Tweed Deluxe® Equivalent to #125A10B & #022913	28.95
P-TF41318	25	8	Deluxe Reverb® and Deluxe® Equivalent to #125A1A & #041318	24.95
P-TF22848	35	4	Pro Reverb®, Tremolux®, Vibrolux®, Bandmaster® and Vibroverb® Equivalent to #125A6A & #022848	34.95
P-TF22855	50	2	Tweed Bassman®, Super Reverb® and Concert® Equivalent to #125A9A & #022855	69.95
P-TF22871	50	4	Bassman® Equivalent to #125A13A & #022871	69.95
P-TF18343	50	2, 4, 8	General for 50 watt amps Equivalent to #125A13A & #018343	67.95
P-TF22899	100	4	Dual Showman®, Twin Reverb® and Bassman 100® Equivalent to #125A29A & #022899	69.95

Reverb Driver for Fender® Amps

Replacement for all Fender® amps with reverb.

P-TF22921	3.5	4	Equivalent to #125A20B & #022921	$12.95

Replacement Chokes for Fender® Amplifiers

Made precisely to the original Fender® specs. Drop-in replacements for original Fender® amps and current Fender® reissue amps. Made in the USA.

Part #	Rating	Replacement for:	Price
P-CF22707	50mA DC	Deluxe® and Vibrolux® Equivalent to #125C3A & #022707	$12.95
P-CF22699	90mA DC	Twin®, Super® and Dual Showman® Equivalent to #125C1A & #022699	13.95

Output Transformer Replacements for Marshall™ Amplifiers

Built to vintage specs with exact interleave ratios and materials. Great for upgrading later issue Marshall™ amps. Gives great classic sound. Good replacement for JMP and JCM 800's. For EL34!

Part #	Specs	Price
P-TM050	50w	$69.95
P-TM0100	100w	74.95

NOTE: It is important that every receiver be carefully checked before a burned out transformer is replaced. Too often, some other defect, such as a defective tube, electrolytic condenser, or a partial circuit short has caused the original burnout and the replacement transformer is also ruined before the real cause is found and remedied!!!

HAMMOND MANUFACTURING™

Antique Electronic Supply is a full stocking distributor for Hammond Manufacturing offering you 10% off all Hammond retail prices.

Don't see what you need? We can special order any Hammond product. The full range of Hammond products can be found on Hammond's web site: www.hammondmfg.com

Power Transformers

Replacements for 1930 to 1950 AC radios and tube type equipment. 117 Volt primary, 50/60 Hz. Provided with color-coded leads.

Part #	Mfg.	Rating			Mounting Centers	Weight	Price
P-T263AX	Hammond	100-0-100V 100MA	5V, 2A		2.5" x 1.57" vert.	1.5	$34.16
P-T442	AES	125V 15MA	12.6V, .3A		2", U-bracket	0.7	16.95
P-T269AX	Hammond	125-0-125V 100MA	6.3V, 2A		1.56" x 1.5", vert.	1.7	33.49
P-T269EX	Hammond	190-0-190 65MA	6.3V, 2.5A		1.56" x 1.75"	1.8	31.87
P-T261M6*	Hammond	215V 269MA	6.3V, 4A		3" x 2.8125", vert.	4.0	56.12
P-T269JX	Hammond	250-0-250V 60MA		6.3V, 2.5A	1.56" x 1.75" vert.	1.8	34.43
P-T270CAX	Hammond	250-0-250V 70MA	5V, 2A	6.3VCT, 2.5A	2" x 2.0625", vert.	3.3	41.98
P-T270CBX	Hammond	250-0-250V 100MA	5V, 2A	6.3V, 3A	2" x 2.0625", vert.	3.5	63.00
P-T270DAX	Hammond	260-0-260V 90 MA		6.3V, 4A	2" x 2.125", vert.	3.7	40.50
P-T270DAZ	Hammond	260-0-260V 90 MA		6.3V, 4A	2.25" x 2.875", horiz.	3.5	41.40
P-T270BX	Hammond	275-0-275V 50MA	5V, 2A	6.3V, 2A	1.69" x 2", vert.	3.3	37.53
P-T270CX	Hammond	275-0-275V 65MA	6.3V, .6A	6.3V, 2.5A	1.69" x 2", vert.	2.4	40.60
P-T270DX	Hammond	275-0-275V 90MA	5V, 2A	6.3, 3A	1.94" x 2" vert.	3.3	42.06
P-T270FX	Hammond	275-0-275V 150MA	5V, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	4.75	49.05
P-T270HX	Hammond	275-0-275V 200MA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	5.9	62.38
P-T272BX	Hammond	300-0-300V 100MA	5V, 2A	6.3V, 3A	2.19" x 2", vert.	3.5	44.00
P-T272FX	Hammond	300-0-300V 150MA	5VCT, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	5.0	56.42
P-T272JX	Hammond	300-0-300V 250MA	5VCT, 4A	6.3VCT, 8A	2.81" x 3", vert.	7.6	67.63
P-T273AZ	Hammond	325-0-325V 40MA	5V, 2A	6.3VCT, 2A	2" x 2", horiz.	5.8	45.66
P-T273CZ	Hammond	325-0-325V 150MA	5V, 3A	6.3VCT, 5A	2.5" x 2.5", vert.	5.8	70.94
P-T273DZ	Hammond	350-0-350V 90MA	5V, 2A	6.3VCT, 3A	2.25" x 2.8125", horiz.	4.9	58.58
P-T273BX	Hammond	350-0-350V 175 MA	5V, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	6.1	58.21
P-T273DX	Hammond	350-0-350V 90MA	5V, 2A	6.3VCT, 3A	2.25" x 2.375", vert.	4.1	58.58
P-T274AX	Hammond	360-0-360V 120MA	5V, 3A	6.3VCT, 3.5A	2.5" x 2.44", vert.	5.4	54.00
P-T274BX	Hammond	375-0-375V 175MA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	6.1	62.61
P-T278X	Hammond	400-0-400V 200MA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	7.0	78.51
P-T278CX	Hammond	400-0-400V 465MA		6.3VCT, 6A	3.81" x 3", vert.	12.5	83.73
P-T279X	Hammond	425-0-425V 150MA	5VCT, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	6.0	71.39
P-T282X	Hammond	500-0-500V 200MA	5VCT, 3A	6.3VCT, 6A	3.31" x 3", vert.	9.6	85.45

*** For European radios**

horizontal mount

vertical mount

Classic 300 Series Power Transformers

Picks up where the 200 series leaves off! High quality, high voltage! "World Power," with primary voltages of 100, 110, 120, 200, 220, 240 V @50/60 Hz. All have a secondary bias tap at 50 VAC. Concentric wound for low stray field and low noise. Hipot tested to 2500 VAC. Epoxy painted to match 1650 series output transformers. The P-T300BX is designed specifically for 300B's, the P-T302AX is designed specifically for 2A3's.

Part #	VA	Rating				Mounting Centers	Weight	Price
P-T369AX	40	125-0-125V 100MA	6.3VCT, 2A			1.6875" x 2" vert	2.6	$49.10
P-T370BX	55	275-0-275V 50MA	5VCT, 2A	6.3VCT, 2A		1.9375" x 2" vert	3.1	55.22
P-T370FX	142	275-0-275V 150MA	5VCT, 3A	6.3VCT, 5A		2.94" x 2.5" vert	6.2	73.64
P-T363CX	119	180-0-180V 250MA	5VCT, 3A			2.4375" x 2.5" vert	5.6	73.64
P-T372BX	98	300-0-300V 100MA	5VCT, 2A	6.3VCT, 3A		2.1875" x 2.5" vert	4.8	65.04
P-T372FX	150	300-0-300V 150MA	5VCT, 3A	6.3VCT, 5A		2.5" x 2.9375" vert	6.2	83.46
P-T302AX	198	300-0-300V 200MA	2.5VCT, 2.5A	5VCT,3A	6.3VCT, 6A	2.8125" x 3" vert	8.0	98.18
P-T372JX	243	300-0-300V 250MA	5VCT, 4A	6.3VCT, 8A		3" x 3.3125" vert	9.8	100.64
P-T374BX	200	375-0-375V 175MA	5VCT, 3A	6.3VCT, 6A		2.8125" x 3" vert	7.9	92.04
P-T378X	273	400-0-400V 200MA	5VCT, 3A	6.3VCT, 6A		3" x 3.0625" vert	8.9	116.60
P-T300BX	280	400-0-400V 250MA	5VCT, 1.2A	5VCT, 3A	6.3VCT, 6A	3" x 3.8125" vert	12.0	122.72
P-T378CX	465	400-0-400V 465MA	6.3VCT, 6A			3.5" x 3.5625" vert	17.6	125.18

Hammond Classic Tube Transformers

Hammond offers both single-ended and push-pull audiophile tube output transformers in their 1600 series. All specifications shown are at full rated power. All include multiple interleaved windings to maximize high frequency response and all (except for the 1650G) include Ultra-Linear taps at the 40% point. High grade laminations (M6) and high quality copper wire are used. The core is varnished and oven baked to ensure quiet operation, even at high ambient temperature. Hammond achieves a classic look to complement any amplifier design by finishing the end bells with a tough, low gloss, black powder paint finish to resist scratching. End bells include knockouts for optional above chassis wiring. From 3 to 280 watts, Hammond has the output transformer for you.

Don't see what you need? We can special order any Hammond product. The full range of Hammond products can be found on Hammond's web site: www.hammondmfg.com.

1600 Series Push-Pull Transformers

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response 30 Hz to 30 kHz at full rated power (±1 db max. ref. 1 kHz) minimum. All units have secondary impedance of 4/8/16 ohms. Flexible 8" leads.

Part #	Watts	Primary Imp. (ohms)	Mounting Centers(")	lbs.	Suggested Tube Types	Price
P-T1608	10	8,000 CT	1.69" x 2", vert	2.5	6AQ5, 6V6, 6BQ5/EL84	$36.82
P-T1609	10	10,000CT	1.69" x 2" vert	2.5	6AQ5, 6V6, 6BQ5/EL84	36.82
P-T1615	15	5,000 CT	2.19" x 2", vert	3.3	2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6	41.18
P-T1620	20	6,600 CT	2.44" x 2", vert	3.5	6AQ5, 6L6, 6V6	42.22
P-T1650F	25	7,600CT	2.44" x 2", vert	4.0	6L6GC, 6V6, 807, 5881, EL34	55.22
P-T1645*	30	5,000 CT	2.19" x 2.5", vert	4.5	6L6GC, 6V6, 807, 5881, EL34	55.22
P-T1650E	15	8,000 CT	2.5" x 2"	3.5	Replicates our part # P-TS142A	59.00
P-T1650G	35	6,600CT	2.5" x 2.25", vert	4.7	6L6GC, 6V6, 807, 5881, EL34	60.14
P-T1650H	40	6,600 CT	2.69" x 2.5", vert	6.5	6L6GC, 807, 5881, EL34	84.58
P-T1650K	50	3,400 CT	2.69" x 2.5", vert	7.0	6L6GC, 807, 5881, EL34, 6146B, 6550	89.14
P-T1650N	60	4,300 CT	2.94" x 2.5", vert	8.0	6L6GC, 807, 5881, EL34, 6146B, 6550, KT88	79.78
P-T1650P	60	6,600 CT	2.94" x 2.5", vert	8.0	6L6GC, 807, 5881, EL34, 6146B, 6550	79.78
P-T1650R	100	5,000 CT	3.06" x 3", vert	12.0	807, 5881, EL34, 6146B, 6550, KT88	82.85
P-T1650T	120	1,900 CT	3.31" x 3", vert	14.0	6L6GC, 5881, EL34, 6550, KT88	96.28
P-T1650W	280	1,900 CT	5.88" x 3.5", vert	28.0	6L6GC, 5881, EL34, 6550, KT88	184.10

***70V secondary winding in addition to the 4/8/16**

The examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube type. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, etc.) will change the optimum plate to plate load impedance. A tube manual or technical data sheet should be consulted before choosing an output transformer.

1600 Series Push-Pull Potted Transformers

Designed for Push-Pull tube output circuits. Enclosed in a drawn steel case. Completely potted in epoxy.

Part #	Watts	Primary Imp. (ohms)	Mounting Centers(")	lbs.	Suggested Tube Types	Price
P-T1650KP	50	3,400 CT	2.69" x 2.5", vert.	7.0	6L6GC, 807, 5881, EL34, 6146B, 6550	$126.10
P-T1650PP	60	6,600 CT	2.94" x 2.5", vert.	8.0	6L6GC, 807, 5881, EL34, 6146B, 6550	151.33
P-T1650RP	100	5,000 CT	3.06" x 3", vert.	12.0	807, 5881, EL34, 6146B, 6550, KT88	171.82

1600 Series Single Ended Transformers

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response at least 20 Hz to 20 kHz at full rated power (+/- 1db max. ref. 1kHz) minimum. All units have mount centers of 3.81" x 3", and secondary impedance of 4/8/16 ohms. Flexible 8" leads. Each weighs 11 lbs.

Part #	Watts	Primary Imp. (ohms)	Max D.C. Bias	Suggested Triodes	Suggested Pentodes	Price
P-T1627SE	25	2,500	160ma	2A3, 6A3, 6B4G, 300B	6L6, 807, 5881, 6550, Parallel 6AQ5, 6V6, EL84, EL34	$97.52
P-T1628SE	25	5,000	120ma	211, 300B	6AQ5, 6V6, 6L6, 807, 5881, 6550, EL84	97.52
P-T1629SE	25	6,500	100ma	811A, 572B, SV572-30		97.52
P-T1640SE	25	1,250	200ma	Parallel 2A3, 6A3, 6B4G, 300B	Parallel 6550, EL34	97.52

Rotary Impedance Selector - For Use With Hammond 1600 Series Transformers

Hammond 1600 series transformers all provide secondary impedances of 4, 8 or 16 ohms, but due to the unique wiring of the secondary, the impedance cannot be changed without rewiring... Until now. We now offer a selector switch, pre-wired and complete with 1/4" jack output. Follow simple instructions provided to wire transformer secondary to switch, mount switch and 1/4" jack in separate 3/8" diameter holes in chassis and you'll easily be able to select output impedance as needed.

P-H1600 $14.95

Radiola Audio Replacement Transformer NEW! P-T118944 $29.95

Developed in response to requests from RCA Radiola III-A collectors. The original transformers are usually found with "open" windings due to the fine wire and high turns used, coupled with age. This is a universal replacement type - it will replace any of the three audio transformers used (1st audio driver, second audio - phase splitter stage or output transformer), by correctly connecting the 5 lugs. A pin out and connection diagram is included. The cases from the old transformer will fit this new unit. The terminal board is a duplicate of the original.

Key Features

Primary: 4,000 turns, #41 wire (lugs 4 & 2) Secondary: 12,000 turns C.T., #41 wire (lugs 5 & 1, lug 3 is C.T. connection) Termination: Solder lugs on a 1¾" x 1" terminal board with 4-5" connecting leads Size: 1⅞" long x 1 11/16" wide x 1⅜" deep Lamination Core Size: ⅝" x ½" Weight: 7 oz

Universal Output Transformers

Multi-tap transformers have tables provided to choose pre-calculated impedance ratios. Secondary impedances from 1.5 to 15 ohms. Leads on primary, solder lugs on secondary. U-bracket mounting. For single or push-pull applications.

Part #	Mfg.	Output Watts	Pri. Z Ohms	Mounting Centers	lbs.	Price
P-T125A	Hammond	3	1200- 25,000	1.75"	0.3	$26.88
P-T291	AES	8	4000 - 10,000	2.375"	0.7	15.95
P-T125E[1]	Hammond	15	1200 - 25,000	3.125"	1.5	29.80

Universal Single Ended Tube Output Transformers

Part #	Audio Watts	Max. D.C. Bias (ma)	lbs.	Price
P-T125ASE	3	25	0.5	$33.62
P-T125BSE	5	45	1.1	34.14
P-T125CSE	8	60	1.3	28.82
P-T125DSE	10	70	2.0	33.38
P-T125ESE	15	80	3.0	37.24

Audio Interstage Transformers

Part #	Description	Imp.-Ohms Pri. to Sec.	Mounting Centers	lbs.	Price
P-T124D[1]	Push-Pull plate to push-pull grids (25 max DC bias)	7,000-15,800	2.375"	0.7	$12.52
P-T124B*	Single ended or push-pull, center-tapped secondary.	10,000-90,000	2.0"	0.6	14.32
P-T156	Equivalent to Stancor A53-C. 1:3 ratio overall.				
	Center tapped secondary may be used for push-pull grids	10,000-90,000	2.0"	0.4	14.95
P-T431	Coil assembly only for above (P-T156). Use your own iron to preserve mechanical fit. Coil window is ½" x ½"			0.2	12.95
P-T124E	Multi-purpose, center-tapped primary. Center-tapped secondary providing 1:1.5/1:3/1:6 ratio	15,000-135,000	2.5"	0.8	25.15

** 49% nickel laminations for greater fidelity*

Multi-tapped Power Transformer P-TC-141-354 $9.95

60 V and 18.6 VCT secondaries. Many different voltages available, depending upon the connection you choose. Use two or more for even more flexibility and higher voltage, current or power. With suitable dropping devices, this transformer can power 6.3 or 12.6 V tube filaments from the taps, in addition to supplying B+ using the whole secondary. Good for experimental circuits, power supplies, etc. 0.8 lbs

Crest Half Shell Power Transformer P-T6415 $34.95

Flush mounting transformer fits the physical and electrical requirements of many radios. 115VAC Primary; 700 VCT-70 mA secondary; 5V-3A rectifier winding; 6.3V-3.5A filament winding. 2½" x 3⅛" mounting centers.
New-old-stock surplus. 3.8 lbs

Other Transformers

Part #	Mfg.	Power	Primary	Secondary	Response	Centers	lbs.	Price
P-T31	AES	8W	5k ohm single-ended	8 ohm		2.375" u-bracket	0.7	$12.95
P-T125H[1]	Hammond	8W	10k ohm CT	2/4/8 ohm		2.375" u-bracket	1.0	15.26
P-T125J	Hammond	8W	4k and 2500ohm CT	6/8/4 ohm		1.75"	0.3	17.92
P-TK15	Surplus	10mA	1.5k ohm	1.5k ohm CT	100-5k	PC mount	1 oz	.75
P-TK2	AES	8W	10k ohm	2500 ohm CT		1.75" u-bracket	4 oz	3.95
P-TTA-59	Stancor	5W	500 ohms push-pull	200 ohm CT	70-80k	1.75"	10 oz	4.95
P-TRS12-D45[2]	Radio Shack	.45A	120VAC	12.6vct-450mA	Filament	2.0625"	12 oz	4.95
P-TK14	Surplus	5mA	interstage 2k ohm	100-100 ohm	200-5k	PC mount	3 oz	.75
P-T13	Surplus	5mA	interstage 15k ohm	60-60 ohm	200-5k	PC mount	3 oz	.75
P-TK17	Surplus	2W	Audio output 250 ohm	3.2 ohm	500-3k	.625" PC mount	2 oz	.40
P-T983	Surplus	3W	Audio output 2500 ohm	8 ohm	500-3k	1.5: u-frame	0.2	4.95

Filament Transformers

115v Primary, 50/60 Hz. U-bracket mounting

Part #	Rating	Mounting Centers	lbs.	Price
P-T166M2[1]	2.5VCT, 3A	2.375"	0.8	$10.90
P-T166Q2	2.5VCT, 6A	2.8125"	1.0	16.24
P-T166S2	2.5VCT, 10A	3.125"	1.8	17.68
P-T166L5	5.0VCT, 2A	2.375"	0.7	14.65
P-T167R5*	5.0VCT, 8A	1.44" x 1.75"	1.6	26.12
P-T166MS	5.0VCT, 3A	2.8125"	1.3	10.90
P-T166RS	5.0VCT, 8A	4.0"	2.2	18.18
P-T166L6	6.3VCT, 2A	2.375"	0.8	14.63
P-T166N6	6.3VCT, 4A	2.8125"	1.1	15.50
P-T166Q6	6.3VCT, 6A	3.13"	1.4	21.42
P-T166S6	6.3VCT, 10A	3.5625"	2.3	25.40
P-T167U6*	6.3VCT, 16A	2.19" x 2.0"	3.5	32.43
P-T167S10*	10.0VCT, 10A	2.19" x 2.0"	3.2	32.26
P-T167S11*	11.0VCT, 10A	2.19" x 2.0"	5.0	32.74
P-T167L12*[2]	12.6VCT, 2.5A	1.75" x 1.5"	1.3	20.03
P-T166N12	12.6VCT, 4A	3.125"	0.8	19.07
P-T167G60*	60.0VCT, .5A	1.56" x 1.5"	10.0	19.71

*Enclosed style 4 hole chassis mount

2

Line Isolation Transformers

Part #	Mfg.	VA Rating	Mounting Centers	lbs.	Price
P-TN-51X		35	3.125, U-bracket	2.0	$20.95
P-T169SS	Hammond	90	2.19" x 2" vert.	4.5	36.82
P-T169VS	Hammond	175	2.69" x 2.5" vert.	7.0	42.96

115 volt primary, 60 Hz, 115 volt secondary 60Hz, must be hard wired

P-T171A	Hammond	100	1.88" x 3"	6.5	61.43
P-T171B	Hammond	200	2.38" x 3"	8.1	74.30

115 volt primary, 50/60 Hz, 115 volt secondary 50/60 Hz, vertical mounting. With line cord.

Ferroresonant Transformers

Constant voltage ferroresonant transformer filters surges, line harmonics, and RF noise. Provides circuit isolation. Input connected to15' heavy duty cord 14/3 SJTW with NEMA 5-15P plug. Output is 120 VAC +/- 3% with input of 120 VAC +10% to -25%. Sine wave output THD 3%.

Part #	VA	Amps	# of Rear Outlets	Dimensions	lbs.	Price
P-TCV120300	300	2.5	2	7" x 7.13" x 12.3" dia	25.3	$255.00
P-TCV120600	600	5	4	9" x 10.13" x 19.5" dia	48	330.00

Hammond Transformer

Built in response to requests from the "Collins Collectors Association"
Isolation Unit: (i.e. separate primary and secondary)
Primary: 600 ohm (with 6" wire leads)
Secondary: 8 ohm with 4 ohm center tap (with solder lugs)
Power: Rated at 12 watts
Frequency Response: 30 Hz-20kHz
Mounting: 2 hole U-bracket mount on 2.8125" mounting centers
Weight: 1.3 lbs

P-T119DA $18.32

Special Power Transformers with 2.5v filament Windings (120v 60Hz Pri)

This transformer has been custom manufactured to provide the replacement needs for early 30's radios. It will work in most 6 and 7 tube sets. Vertical mounting shells, with the leads coming out one side so that horizontal mounting may be used. Provides a separate filament winding for audio output stages but both 2.5V windings can be paralleled for the combined current rating.

Part #	Rating			Mounting Centers	lbs.	Price
P-T143	350-0-350v, 70-90ma* 5v, 3A	2.5V, 7.5A	2.5VCT, 3.5A	2.3125" x 2.5"	4.6	$59.95

*Will provide 90MA if 5V winding is used with 2A rectifier

1

2

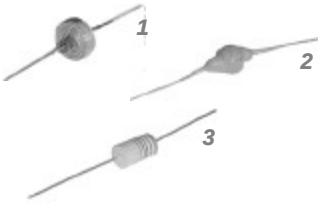
Filter Chokes

Part #	Mfg.	Rating		Max. VDC	Resistance in ohms	Mounting Centers	lbs.	Price
P-T155B	Hammond	6 mH	2000mA	400	0.3	2" u-frame	0.3	$8.90
P-T156R[4]	Hammond	1.5 Henries	200mA	400	56	2.375" u-frame	0.7	10.20
P-T154M	Hammond	2 Henries	100mA	300	175	1.75" u-frame	0.25	8.41
P-T159S	Hammond	4 Henries	225mA	500	65	3.56" u-frame	2.25	20.62
P-T155H	Hammond	5 Henries	50mA	400	270	2" u-frame	0.4	10.23
P-T158Q	Hammond	5 Henries	150mA	400	105	2.8125" u-frame	1.3	16.73
P-T193H	Hammond	5 Henries	200mA	600	65	1.6875" x 2" vert	2.5	24.70
P-T193L	Hammond	5 Henries	300mA	800	57	2.4375" x 2.5" vert	5.5	30.58
P-T193P	Hammond	5 Henries	500mA	800	26	3" x 3.31"	10.75	71.64
P-T153E	Hammond	7 Henries	25mA	300	770	1.38" u-frame	1.0	19.77
P-T159Q	Hammond	7 Henries	150mA	500	100	3.56" u-frame	2.25	20.96
P-T193D	Hammond	8 Henries	150mA	600	75	2.5" x 2.1875" vert	3.3	29.81
P-T154G	Hammond	9 Henries	40mA	300	700	1.75" u-frame	0.25	8.84
P-T156G	Hammond	9 Henries	40mA	400	300	2.38" u-frame	0.5	9.89
P-T157J	Hammond	10 Henries	65mA	400	205	2.8125" u-frame	1.0	18.32
P-TC-7X	Triad	10 Henries	90mA	400	270	2.8125" u-frame	1.4	17.95
P-T159P	Hammond	10 Henries	125mA	500	155	3.56" u-frame	2.25	20.72
P-T193Q	Hammond	10 Henries	500mA	1000	53	4.31" x 3" vert	21.0	66.90
P-T158M	Hammond	10 Henries	100mA	400	195	2.8125" u-frame	1.3	16.52
P-T193G[2]	Hammond	10 Henries	150mA	800	102	1.9375" x 2.5" vert	4.3	43.94
P-T193J	Hammond	10 Henries	200mA	800	82	2.4375" x 2.5" vert	5.5	41.13
P-T193M	Hammond	10 Henries	300mA	800	63	3" x 3.3125" vert	10.5	50.28
P-T193B	Hammond	12 Henries	100mA	600	155	1.6875" x 2" vert	2.5	24.68
P-T158L	Hammond	15 Henries	75mA	400	411	2.8125" u-frame	1.3	16.65
P-T159M	Hammond	15 Henries	100mA	500	256	3.56" u-frame	2.25	21.20
P-T154E	Hammond	20 Henries	20mA	300	1666	1.75" u-frame	0.25	9.25
P-T193C	Hammond	20 Henries	100mA	600	181	2" x 2.1875" vert	3.3	29.84
P-T157G	Hammond	30 Henries	40mA	400	595	2.180" u-frame	1.0	19.08
P-T155C	Hammond	60 Henries	8mA	400	2750	2" u-frame	0.3	9.89
P-T156C	Hammond	150 Henries	8mA	400	3700	2.38" u-frame	0.5	10.77

R.F. Chokes from Hammond

3 section windings on ferrite forms approximately 1¼" long by 9/16" over windings. With axial leads 1½" long. 5% tolerance.

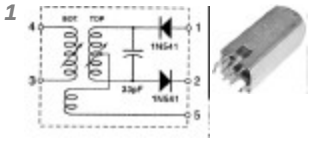
Part #	Inductance	Resistance	Max. DC Current	Price
P-C1535B	2.5 mH	9 ohms	160mA	$3.40
P-C1535D	5.0 mH	14 ohms	160mA	3.55
P-C1535G	10.0 mH	31 ohms	100mA	3.88
P-C1535J	25.0 mH	82 ohms	65mA	3.98


1 2 3

NOS Chokes

While Supplies Last!

Part #	Description	Price
P-C206[1]	R.F. Choke, 1.2mH	$1.00
P-C188[2]	R.F. Choke, 550uH	1.95
P-C189[3]	R.F. Choke, molded, 220uH	1.00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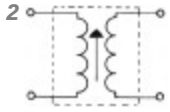
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I.F. Transformers

NOS I.F. transformers in ¾" square cans. While Supplies Last!

Part #	Hz	Mounting	Price
P-C214	10.7 mHz	two #6-32 mounting studs	$6.95
P-C218	10.7 mHz	universal pc mount (hex slug tuned)	2.95
P-C10D7[1]	10.7 MHz Ratio Det	pc mount (hex slug tuned)	5.95
P-C455ST[2]	455 kHz	pc mount	5.95

I.F. Transformers for Transistor Radios

Part #	Hz	Description	Price
P-C208R	455 Hz	Red cap- detector	$0.45
P-C208B	455 Hz	Blue cap- mixer	.45
P-C208Y	455 Hz	Yellow cap- center I.F.	.50

Positive Ground Power Inverters

*Operate modern 12 volt negative ground accessories from positive ground 6, 8, or 12 volt electrical systems! Power Inverters are very small (1 3/4" x 1 3/4" x 1 3/4"), lightweight (only about 9 oz), quiet, and extremely efficient. They use a common ground so isolation is not necessary. Current draw is negligible when no load is applied (quiescent current is about 10 milliamps), so they are ideal for memory maintenance or alarm systems that must be left on for long periods of time without discharging the vehicle battery. Overload and Reverse Polarity protected for long reliable life. Possible uses include: radar detectors, CB radios, mobile phones, modern stereo radios, alarm systems (control only), cd and cassette players. **

Input Voltage: -4 to -16V
Output Voltage: +12.6V
Maximum Output Current - 6 volt systems:
-6V input (engine off) = 2.1 Amps continuous duty
-7.2V input (fast idle) = 2.5 Amps continuous duty
-12V system = 1.9 Amps (min), 2.2 Amps (max) continuous duty
Instructions included

P-VPGPI $67.95

Higher Current Power Inverters

Same physical dimensions as other but Maximum Output Current is increased to:
Maximum Output Current - 6 volt systems:
-6V input (engine off) = 2.1 Amps continuous duty
-7.2V input (fast idle) = 2.5 Amps continuous duty
-12V system = 4.0 Amps (min), 4.7 Amps (max) continuous duty
Instructions included

P-VPGPI-HC $97.95

*NOTE: These voltage boosters are not intended to run motors, solenoids, ignition coils, door locks, lights, fans, trailer brakes, power antennas, power seats, wipers or other inductive loads.

Negative Ground Voltage Boosters

*For 6 or 8 volt negative ground systems, provides 12.6V negative ground output from a 4 to 10 volt input. Small size (1 3/4" x 1 3/4" x 1 3/4"), lightweight (only about 9 oz), quiet, and extremely efficient. **

Maximum output current:
+6V input (engine off) = 1.8 Amps continuous duty
+7.2V input (fast idle) = 2.25 Amps continuous duty
Instructions included

P-VNGVB $67.95

Higher Current Voltage Boosters

Same dimensions as other but Maximum Output Current is increased to:
+6V input (engine off) = 3.7 Amps continuous duty
+7.2V input (fast idle) = 5.0 Amps continuous duty
Instructions included

P-VNGVB-HC $97.95

Solid State Vibrator Replacements

New manufacture solid-state replacements for 6 volt and 12 volt 3 and 4 pin vibrators. 1 1/2" diameter x 2 3/4" high aluminum can. New and improved! Now much lighter (no longer potted) and more efficient. Replace your buffer capacitor when you replace your vibrator! We can special order other values.

Description	Part #	Price
6V, 4 pin, negative ground	P-V1015N	$29.95
6V, 4 pin, positive ground	P-V1015P	29.95
6V, 4 pin, positive ground (specifically designed for higher tube-count Cadillac radios)	P-V1118P	34.95
12V, 4 pin, negative ground	P-V2015N	29.95
12V, 4 pin, positive ground	P-V2015P	29.95
12V, 3 pin, negative ground	P-V2215N	29.95

Universal Replacement Coils

Will replace broadcast band coils in any tube type radio. Adjustable inductance for perfect tracking. Mount on bus wire leads or in 5/16" hole. Coils are similar to Miller numbers that correspond.

Part #	Description	Price
P-C70-A	Antenna Coil	$7.75
P-C70-OSC	Oscillator Coil	7.75
P-C70-RF	R.F. Coil	7.75

Oscillator Coils

Part #	Description	Price
P-C76	3 lug, 225 µHY	$1.95
P-C78	3 lug, 142 µHY	1.95
P-C77	4 lug, 125 µHY	1.95

Antenna Coils

Part #	Description	Price
[1]P-C72	230µH 4 1/4" x 11/32", Ferrite	$3.95
[2]P-C73	250µH 3 1/2" x 9/32", Ferrite	3.95
[3]P-C74	270µH 6 3/4" X 2 3/4"	3.95
[4]P-C75	650µH, 4 1/4" x 11/32", Ferrite	3.95

Ferrite Rods

Rods are made of 61 Ferrite material, and have a broadcast band of 640KC to 1650KC. While Supplies Last!!

.375" ± 0.020" diameter x 5.00" ± 0.100" long	P-FR1	$9.95
.375" ± 0.020" diameter x 7.50" ± 0.150" long	P-FR2	10.95

Jensen AlNiCo Series Vintage Speakers

P8R

P10R

P12N-NB

P12N-BELL

P12R

P15N

The Jensen Loudspeakers P Series uses the legendary AlNiCo type speaker magnet

P Series	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part #	Price
P8R	8"	4/8	25/50	80-8k	1"	3.25	P-A-P8R	$58.95
The heart and soul of smaller vintage combos and studio amps, this is a great replacement for the Fender® Champ.								
P10R	10"	4/8/16	25/50	80-6k	1"	4.0	P-A-P10R	61.95
This speaker has occupied the finest guitar amplifiers in the world. Very versatile for clean leads, punchy bass, and scorching rock sounds. Pure Vintage!								
P12R	12"	8/16	25/50	60-8k	1"	4.5	P-A-P12R	68.95
A classic AlNiCo 12" speaker made for lower wattages. THe P12R sings with bell like highs along with a warm, extended lower frequency range.								
P12N w/bell	12"	8/16	50/100	60-8k	1.5"	8.25	P-A-P12N	163.95
This classic AlNiCo magnet speaker was one of the original guitar amplifier speakers from as early as 1952.								
P12N-NB	12"	8/16	50/100	60-8k	1.5"	7.5	P-A-P12N-NB	154.95
The "naked" version of the P12N, it doesn't have the bell cover over the magnet. A bell cover can be added later using the "N" size cover.								
P15N	15"	4/8/16	50/100	50-4k	1.5"	10.5	P-A-P15N	188.95
Some guitarists feel that a 15" speaker is the only way to get an instrument's true tone without compromise. Bell not included.								
15" Speaker Gasket							P-A-GASKET-15	6.00
Additional gasket for 15" speakers for proper spacing in Leslie cabinets.								

Please specify ohm rating when ordering

Bell Covers	Usage	Part #	Price
Bell-R	P8R, P10R, P12R	P-A-BELL-P-R	$22.75
Bell-N	P12N, P15N	P-A-BELL-N	29.25

C8R

C10R

C10Q

C12K

C12N

C15K

The C series of Jensen Loudspeakers uses ceramic type speaker magnets

C Series	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part #	Price
C8R	8"	4/8	25/50	80-8k	1"	2.75	P-A-C8R	$25.95
This speaker has an amazing range in a compact size. It is used most often for smaller studio and practice amps, however, the tone rivals speakers twice its size.								
C10R	10"	8	25/50	80-6k	1"	3.5	P-A-C10R	29.75
A low wattage 10" speaker with a loud voice. The C10R can cut through the noise for scorching leads.								
C10Q	10"	8/16	35/70	80-6k	1.25"	4.25	P-A-C10Q	33.95
One of Jensen's most popular models, this speaker features bell-like highs and a smooth midrange. Versatile enough for anything from surf music to hard edge rock.								
C12R	12"	8/16	25/50	70-6k	1"	4.0	P-A-C12R	33.95
Vintage tone in a low wattage 12" speaker.								
C12Q	12"	8/16	35/70	70-6k	1.25"	5.0	P-A-C12Q	41.95
Great character and power handling makes this speaker an excellent choice for amplifiers needing vintage tone.								
C12N	12"	4/8/16	50/100	70-7k	1.5"	8.0	P-A-C12N	57.95
The C12N is the definitive rock and roll speaker, used by almost every major amplifier manufacturer in the 1960's.								
C12K	12"	8/16	100/200	70-7k	1.5"	10.5	P-A-C12K	78.95
This high wattage speaker has great highs and an extended midrange for versatility in both clean and overdriven settings.								
C15N	15"	4/8/16	50/100	50-4k	1.5"	11.0	P-A-C15N	88.95
A 15" speaker has wider range of tone reproduction. Smooth highs and deep lows.								
C15K	15"	8/16	100/200	50-4k	2"	13.5	P-A-C15K	98.95
Jensen 15" ceramic magnet speakers have biting highs for lead and a throaty low end for overdriven chords. Excellent as guitar amps or in Leslie speaker cabinets.								
15" Speaker Gasket							P-A-GASKET-15	6.00
Additional gasket for 15" speakers for proper spacing in Leslie cabinets.								

Please specify ohm rating when ordering

Recone Kits	Part #	Price
P10R	K-RC-P10R	$69.95
C10R	K-RC-C10R	34.95
C10Q	K-RC-C10Q	39.95
C12N	K-RC-C12N	64.95

Recone your original Jensen Speakers with these kits. As reconing is a specialized skill, these do not come with instructions and are for use by those who have experience in speaker reconing. Original Jensen Speaker Recone Kits are made exclusively for older "Original" Jensen speakers (made prior to 1980) and contain genuine Jensen components. These kits cannot be returned or used on Jensen re-issue Vintage Series Models.

As seen in Guitar Player, Guitar One and 20th Century Guitar

The MOD™ Series

Modern with a touch of English

Jensen® Mods™, the series of Jensen® musical instrument speakers developed to give the player a contemporary feel with a touch of the old British sound.

The Jensen® Mod™ Series speakers are designed for those precision amplifiers, which require a speaker that complements the signal without changing the signatures of the amp itself. This combination of transparent sound with a touch of English makes the Jensen® Mods™ perfect for any amplifier.

Mods	Size	Ohms	RMS/Peak	Voice Coil Diameter	Weight (lbs)	Part #	Price
MOD8-20	8"	4 / 8	20/40	1"	2.0	P-A-MOD8-20	$17.45
MOD10-35	10"	8 / 16	35/70	1"	3.1	P-A-MOD10-35	24.95
MOD10-50	10"	4 / 8 / 16 / 32	50/100	1.25"	4.3	P-A-MOD10-50	31.50
MOD10-70	10"	8	70/140	1.5"	5.5	P-A-MOD10-70	33.95
MOD12-35	12"	8 / 16	35/70	1"	3.8	P-A-MOD12-35	31.95
MOD12-50	12"	8 / 16	50/100	1.25"	5.0	P-A-MOD12-50	48.95
MOD12-70	12"	4/ 8 / 16	70/140	1.5"	6.0	P-A-MOD12-70	48.95
MOD15-120	15"	4 / 8 / 16	120/240	2"	11.4	P-A-MOD15-120	63.95
MOD15-200	15"	4/ 8 / 16	200/400	2"	14.0	P-A-MOD15-200	98.75

Please specify ohm rating when ordering

CELESTION

Model	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part #	Price
General Guitar								
G10L-35	10"	8	35/70	100-6k	1.25"	4.5	P-A-G10L35	$79.00
G12T-75	12"	8/16	75/150	75-5k	1.75"	8.6	P-A-G12T75	95.00
This is the industry standard 12" loudspeaker, found in all recent 4x12 Marshall™ amplifiers.								
Specialist Guitar								
Vintage 10	10"	8/16	60/120	80-5k	1.75"	6.0	P-A-VINT10	79.00
This speaker is a smaller version of the world renowned Vintage 30, with it's classic warm tones and second to none capacity for sound.								
Vintage 30	12"	8/16	60/120	80-5k	1.75"	11.2	P-A-VINT30	109.00
Great combo performer, this speaker thrives on high gain amps set to the max, masses of volume and sustain, combined with tight, responsive single note definition.								
G12H	12"	8/16	30/60	75-5k	1.75"	11.5	P-A-G12H	119.00
With roots dating to the 1970's, the G12H has a tight, controlled bottom and a great midrange presence. Anniversary Edition.								
G12M	12"	8/16	25/50	75-5k	1.75"	9.0	P-A-G12M	99.00
Greenback Warmth and woodiness are the essential characteristics to this sound, with the ability to respond instantly to the most subtle dynamic changes.								
G12M-70	12"	8/16	70/140	80-5k	1.5"	8.6	P-A-G12M70	99.00
Modern Lead Greatest when pumping out hard rock or metal, this modern lead speaker is the standard replacement in all 4x12 Marshall™ amplifiers.								
G12-80	12"	8/16	80/160	75-5k	1.75"	11.3	P-A-G1280	119.00
Classic Lead If you're looking for improved power handling and warmth, this speaker is what you want! Perfect replacement or upgrade for 4x12 Marshalls™.								
G12	12"	8/16	15/30	75-5k	1.75"	10.3	P-A-G12	249.00
AlNiCo Blue Designed in the 50's, this speaker uses the original magnet to provide the tonal definition and dynamic range they are known for. Vox Bulldog speaker.								
G12 Century	12"	8	80/160	75-5k	1.75"	5.5	P-A-CNTRY	189.00
With the G12 Century, you get a speaker with low weight and previously unheard of performance. This new speaker has the ability to deliver extremely high sound pressure levels (121dB@1 meter) in an ultra light weight package. The secret to this speaker is the never-before-used Neodymium alloy magnet structure.								
Silver Series Guitar Series								
V10-40	10"	8	40/80	95-5k	1.5"	4.5	P-A-V10-40	$45.00
V12-60	12"	8/16	60/120	70-5k	1.75"	6.7	P-A-V12-60	69.00

Please specify ohm rating when ordering

Musical Instrument Speakers

Full range replacement speakers for guitar amplifiers. Made in the USA, except P-A603. While Supplies Last!!

Part #	Mfg.	Size	Impedance	Watts	Price
P-A603	Jensen	8"	8 ohms	20	$17.95
P-A704	AES	10"	8 ohms	50	29.95
P-A706	AES	15"	8 ohms	100	39.95

3-way Speaker Set

Includes woofer, midrange and tweeter shown. Branded "Pilot Audio." Weights shown are speaker weights, not magnet weights. 8 ohm speakers. No other specifications available.

1	2" tweeter	.3 lbs
2	5"midrange	1.1 lbs
3	8" woofer	1.6 lbs.
While Supplies Last!	P-AS852	$7.95

Loose Replacement Speakers

High quality, permanent magnet. For electro-dynamic speakers we suggest substituting a 5 or 10 watt wirewound resistor of approximately the same resistance as the old field coil. See the Tech Corner of our website for instructions. While Supplies Last!

Part #	Shape	Size	Impedance	Watts	Price
P-A600	Square	4"	8 ohms	1	$7.95
P-A601	Pin Cushion	4 1/2"	6 ohms	5	7.95
P-A6375-3A	Oval	3 3/4" x 6"	3.2 ohms	?	.95
P-A602	Pin Cushion	6"	8 ohms	10	7.95
P-A603	Round	8"	8 ohms	20	17.95
P-A606	Pin Cushion	4 1/4"	4 ohms	15	4.95
P-A69E8C	Oval	6" x 9"	4 ohms	8	12.50

3" Tweeter

CTS, 8 ohm 5 oz. ceramic magnet. While Supplies Last!

P-ACTS03	$2.95

Dynamic Earphones

Dynamic earphones for use in transistor radio and other applications.

[1]500 ohm resistance, 3.5 mm plug	P-A482	$0.35
[1]15 ohm resistance, no plug	P-A483	.35
[2]1000 ohm, 20" leads	P-A103	.35
[3]Microphone, WE magnetic	P-A102	.35

See page 61 for crystal earphones

High Impedance Double Headset

High quality 2000 ohm double headphone. Has black light-weight plastic ear caps, with metal headband, plastic cord and 2 phone tips. Works great with crystal set or our one-tube radio kit. 0.5 lb. While Supplies Last!!

P-A466	$19.95

Hammond Manufacturing General Purpose Steel & Aluminum Chassis Boxes

- *Spot welded heavy duty construction chassis*
- *Steel Boxes are Painted ASA 61 Grey Baked Enamel Finish*
- *Aluminum boxes are natural finish*
- *Covers are punched with 4 holes - 3/16" dia.*

1590 Series Diecast Aluminum Enclosures

- *Countersunk Lid with Machine Screws into drilled and tapped holes*
- *Lap joint construction provides protection from dust and water*
- *Vibra finished, no sharp edges*

Part	Size	Price
P-H1590A	3.63" x 1.52" x 1.07"D	$6.49
P-H1590B	4.38" x 2.4" x 1.07"D	7.42
P-H1590BB	4.7" x 3.7" x 1.18"D	9.64
P-H1590BBBK	4.7" x 3.7" x 1.18"D Black Powder Coated	12.54
P-H1590C	4.7" x 3.7" x 2.06"D	10.85
P-H1590D	7.39" x 4.72" x 2.06"D	17.76
P-H1590E	7.39" x 4.72" x 3.06"D	19.00
P-H1590F	7.41" x 7.41" x 2.5"D	25.55
P-H1590G	3.94" x 1.97" x 0.83"D	6.96
P-H1590LB	1.98" x 1.84" x 1.07"D	6.70
P-H1590V	4.72" x 4.72" x 3.54"D	20.39

Diecast Aluminum Enclosure

Same as Hammond 1590BB but generic manufacture from Taiwan

Part	Size	Price
P-H1590BBCE	4.7" x 3.7" x 1.18"D	$8.75

Aluminum Chassis Boxes

Note: Dimensions shown are exterior measurements

Part	Thickness	Size	Price	Cover	Price
P-H1444-8	.04"	6" x 4" x 2"	$7.30	P-H1434-8	$3.68
P-H1444-12	.04"	7" x 5" x 2"	7.98	P-H1434-12	3.61
P-H1444-16	.04"	10" x 6" x 2"	10.43	P-H1434-16	5.53
P-H1444-18	.04"	13.5" x 5" x 2"	11.04	P-H1434-18	5.90
P-H1444-22	.051"	12" x 8" x 2"	18.20	P-H1434-22	7.80
P-H1444-32	.051"	17" x 10" x 3"	24.85	P-H1434-30	8.26

20 Gauge Steel Chassis Boxes

Note: Dimensions shown are exterior measurements

Part	Size	Price	Cover	Price
P-H1441-8	6" x 4" x 2"	$7.89	P-H1431-8	$3.98
P-H1441-12	7" x 5" x 2"	8.61	P-H1431-12	3.91
P-H1441-16	10" x 6" x 2"	11.27	P-H1431-16	5.97
P-H1441-18	13.5" x 5" x 2"	11.93	P-H1431-18	6.35
P-H1441-20	17" x 4" x 3"	19.75	P-H1431-20	6.44
P-H1441-22	12" x 8" x 2"	19.67	P-H1431-22	8.46
P-H1441-26	16" x 8" x 2"	19.82	P-H1431-26	8.46
P-H1441-29	12" x 10" x 2"	19.77	P-H1431-29	8.46
P-H1441-32	17" x 10" x 3"	26.84	P-H1431-30	8.92

Black Powder Coated 20 Gauge Steel Chassis Boxes

Part #	Size	Price	Cover	Price
P-H1441-8BK3	6" x 4" x 2"	$7.89	P-H1431-8BK3	$3.98
P-H1441-12BK3	7" x 5" x 2"	8.61	P-H1431-12BK3	3.91
P-H1441-16BK3	10" x 6" x 2"	11.27	P-H1431-16BK3	5.97
P-H1441-18BK3	13.5" x 5" x 2"	11.93	P-H1431-18BK3	6.35
P-H1441-22BK3	12" x 8" x 2"	19.67	P-H1431-22BK3	8.46
P-H1441-32BK3	17" x 10" x 3"	26.84	P-H1431-30BK3	8.92

Steel Cages - 20 Gauge

Note: Dimensions shown are exterior measurements

Part	Size	Price
P-H1451-16	10" x 6" x 5.2"	$27.41
P-H1451-22	12" x 8" x 5.2"	31.28
P-H1451-30	17" x 10" x 5.2"	37.83

Orange Drop Notes

Why use Film/Foil Capacitors?

Film/Foil capacitors are used rather than ceramic, tantalum or aluminum electrolytic types when capacitance stability, high pulse current and/or dissipation factor (heat loss) are of concern. Film/Foil capacitors are manufactured with capacitance values less than 1.0 microfarad and tolerances ranging from 1% to 10%. In comparison to other types of capacitors, Film/Foil designs offer: High insulation resistance, excellent pulse and current carrying capability, low dissipation factor, capacitance stability, low dielectric absorption, high pulse rise time (dv/dt), non-polarized and high frequency performance.

What is the difference between Film/Foil and metalized film capacitors?

Film/Foil capacitors consist of two plates of aluminum foil, which act as the electrodes, separated by a film used as the dielectric. These materials are non-inductively wound to form the capacitor section. The wire leads are welded directly to the aluminum foil which extends out on both sides of the capacitor section, hence the term extended foil design. In order to provide the utmost in dependability a sufficient thickness of dielectric film is essential. This construction criteria is the primary reason why the physical dimensions of Film/Foil capacitors are larger than that of the metalized types.

In contrast to the Film/Foil capacitor, where the electrode is an independent layer of aluminum foil, the electrode for the metalized film capacitor is an extremely thin layer of metal which is vacuum-deposited directly onto the dielectric film. The wire lead is connected to the electrodes by means of a metal spray applied to each end of the capacitor section; the lead is welded to this metal end spray. Metalized film capacitors are manufactured using a thinner dielectric film than that which is used in the same rated Film/Foil design. This is possible due to the self-healing characteristics of the metalized film. Self-healing or clearing removes a fault or short circuit in the dielectric film by vaporizing the metal electrode surrounding the defect and isolating the area.

SBE

SBE Type PS

Polyester film, 600V, ± 10% tolerance

Part #	Diameter	Length	1-9	10-49	50+
C-SD0012-600	0.33"	0.70"	$0.62	$0.56	$0.47
C-SD0015-600	0.33"	0.70"	.62	.56	.47
C-SD0018-600	0.33"	0.70"	.62	.56	.47
C-SD002-600	0.33"	0.70"	.62	.56	.47
C-SD0025-600	0.35"	0.70"	.62	.56	.47
C-SD0027-600	0.35"	0.70"	.62	.56	.47
C-SD003-600	0.35"	0.70"	.62	.56	.47
C-SD0033-600	0.35"	0.70"	.62	.56	.47
C-SD004-600	0.38"	0.70"	.64	.58	.48
C-SD005-600	0.38"	0.70"	.65	.59	.49
C-SD0056-600	0.40"	0.70"	.65	.59	.49
C-SD006-600	0.40"	0.70"	.65	.59	.49
C-SD0068-600	0.40"	0.70"	.65	.59	.49
C-SD0075-600	0.40"	0.70"	.70	.63	.53
C-SD008-600	0.40"	0.90"	.70	.63	.53
C-SD0082-600	0.40"	0.90"	.70	.63	.53
C-SD01-600	0.40"	0.90"	.70	.63	.53
C-SD015-600	0.40"	0.90"	.80	.72	.60
C-SD02-600	0.45"	0.90"	.87	.79	.65
C-SD025-600	0.45"	0.90"	1.21	1.09	.91
C-SD03-600	0.45"	1.20"	1.21	1.09	.91
C-SD033-600	0.45"	1.20"	1.21	1.09	.91
C-SD04-600	0.55"	1.20"	1.25	1.13	.94
C-SD05-600	0.55"	1.20"	1.33	1.20	.99
C-SD056-600	0.60"	1.20"	1.33	1.20	.99
C-SD06-600	0.60"	1.20"	1.33	1.20	.99
C-SD068-600	0.60"	1.20"	1.33	1.20	.99
C-SD075-600	0.60"	1.20"	1.44	1.30	1.08
C-SD082-600	0.65"	1.20"	1.45	1.31	1.09
C-SD1-600	0.65"	1.20"	1.42	1.28	1.07
C-SD15-600	0.70"	1.60"	1.99	1.79	1.49
C-SD2-600	0.80"	1.60"	2.88	2.59	2.16
C-SD22-600	0.80"	1.60"	2.98	2.68	2.24
C-SD25-600	0.80"	1.60"	2.99	2.69	2.24
C-SD33-600	0.89"	1.81"	3.84	3.45	2.88

Orange Drop Capacitor Kit

Contains 6 of each of the following values in the Type PS (600V, polyester) and Type 715P (600V, polypropylene), 72 pieces total. Save over purchasing individually, and you get a sturdy plastic organizer. Values: .0033, .0056, .01, .022, .047, .1µF **C-RS1** **$52.95**

How To "Read" Orange Drop Capacitors

Need to determine the value of an Orange Drop cap? Use the code at left to determine it's value.

Manufacturer Part Number

224 = capacitance in pico farads

1st two digits are significant digits, 3rd digit is number of digits that follow ie: 22 + 0000 = 220,000 pF = .22µF

K = tolerance, F = 1%, J = 5%, K = 10%

600V = voltage rating

9644 = date code ie: 44th week of 1996

SBE 715P

Rated for 85°C operation. Straight radial leads with minimum 1¼" length. Polypropylene Film ± 5% tolerance.

Part #	Diameter	Length	1-24	25+
C-RD001-600	0.40"	0.75"	$0.55	$0.47
C-RD0022-600	0.40"	0.75"	.55	.47
C-RD0033-600	0.40"	0.75"	.55	.47
C-RD0047-600	0.45"	0.75"	.55	.47
C-RD0056-600	0.45"	0.75"	.60	.51
C-RD01-600	0.45"	0.95"	.65	.56
C-RD015-600	0.50"	0.95"	.65	.56
C-RD022-600	0.55"	0.95"	.82	.70
C-RD033-600	0.55"	1.30"	.94	.80
C-RD047-600	0.60"	1.30"	.84	.72
C-RD1-600	0.75"	1.30"	1.22	1.04
C-RD22-600	0.85"	1.70"	2.05	1.75
C-RD47-400	0.90"	1.55"	1.99	1.69

Polypropylene film, 1600V, ± 10% tolerance			1-24	25+
C-SD001-1600	0.50"	1.30"	$0.92	$0.87
C-SD002-1600	0.50"	1.30"	.92	.87
C-SD003-1600	0.50"	1.30"	.92	.87
C-SD0039-1600	0.50"	1.30"	.92	.87
C-SD0047-1600	0.50"	1.30"	.92	.87
C-SD005-1600	0.50"	1.30"	.92	.87
C-SD006-1600	0.55"	1.30"	1.06	1.01
C-SD0068-1600	0.55"	1.30"	1.06	1.01
C-SD01-1600	0.60"	1.30"	1.21	1.15
C-SD02-1600	0.65"	1.70"	1.64	1.56
C-SD03-1600	0.75"	1.70"	1.78	1.69
C-SD05-1600	0.85"	1.70"	2.32	2.20

SBE 716P High Performance "Orange Drop" Capacitors

The Type 716P Orange Drop is a high performance version of the popular 715P series. They are made from polypropylene film and foil with pure copper leads, making them ideal for high pulse current applications. Rated for 85° C operation. ±5% tolerance. Straight radial leads with minimum 1¼" length.

Part #	Diameter	Length	1-24	25+
400 Volt				
C-PD0047-400	0.31"	0.63"	$0.82	$0.66
C-PD0056-400	0.36"	0.65"	.83	.67
C-PD01-400	0.39"	0.65"	.86	.69
C-PD015-400	0.44"	0.65"	.87	.70
C-PD022-400	0.43"	0.81"	1.03	.83
C-PD033-400	0.49"	0.89"	1.11	.89
C-PD047-400	0.51"	0.84"	1.18	.95
C-PD1-400	0.60"	1.16"	1.37	1.10
C-PD22-400	0.75"	1.15"	1.70	1.36
C-PD33-400	0.78"	1.54"	2.08	1.67
C-PD47-400	0.93"	1.55"	2.46	1.97
600 Volt				
C-PD001-600	0.41"	0.63"	.82	.66
C-PD0022-600	0.39"	0.65"	.82	.66
C-PD0033-600	0.37"	0.61"	.83	.67
C-PD0047-600	0.43"	0.63"	.85	.68
C-PD0056-600	0.43"	0.63"	.86	.69
C-PD01-600	0.50"	0.65"	.91	.73
C-PD015-600	0.51"	0.85"	1.05	.84
C-PD022-600	0.56"	0.85"	1.14	.92
C-PD033-600	0.64"	0.86"	1.25	1.00
C-PD047-600	0.62"	1.19"	1.31	1.05
C-PD1-600	0.82"	1.18"	1.84	1.48
C-PD22-600	0.95"	1.56"	2.36	1.89

All 600 VDC Orange Drop Caps are rated at 200 VAC@60Hz RMS; all 1600 VDC caps are rated at 475 VAC@60Hz RMS

Miscellaneous Orange Drops

C-SD0033-800	.0033µF, 800V	$0.65
C-SD0082-1600	.0082µF, 1600V	.90

When ordering capacitors you want to look for three things: the type of capacitor, the capacity (micro or pico farads) and the voltage rating. Our capacitor part numbers read per the following example:

C-SD01-1600
1 2 3

1) Capacitor - Type

2) Capacity - micro or pico farads
D is decimal point (0.01)

3) Voltage Rating (1600VDC)

Unless noted, capacity is given in microfarads (µF). If the part number has just the micro or pico farads listed then the voltage is the same for all values and is listed in the description of the part. An example of this is the silver mica capacitors.

MusiCaps® by HOVLAND

Hovland MusiCaps enable sensitive audio circuits to achieve their ultimate level of performance. MusiCaps are individually machine-rolled, and the leads are carefully hand-soldered using lead-free silver-bearing solder. The leads are stranded, teflon insulated, silver-plated copper. In addition, the winding method and density of MusiCaps helps quell microphonic tendencies. As a result of the premium materials used to produce MusiCaps, they are approximately 100% larger than common metalized capacitors. MusiCap lead lengths are approximately 2 inches on coupling caps. The red lead is the foil inner edge. It is preferable to connect the red lead towards the output of the circuit.

- ***Manufactured entirely in USA.***
- ***Extremely low DA, DF and ESR.***
- ***100% pre-testing for absolute quality assurance.***
- ***Consistent, even, winding tension assures freedom from microphonics.***

When ordering capacitors you want to look for three things: the type of capacitor, the capacity (micro or pico farads) and the voltage rating. Our capacitor part numbers read per the following example:

C-HD22-400
1 2 3

1) Capacitor - Type

2) Capacity - micro or pico farads
D is decimal point (0.22)

3) Voltage Rating (400VDC)

Unless noted, capacity is given in microfarads (µF). If the part number has just the micro or pico farads listed then the voltage is the same for all values and is listed in the description of the part. An example of this is the silver mica capacitors.

Coupling Capacitors-Film & Foil Polypropylene
22 awg. silver-plated teflon insulated axial leads; Round case. ± 5% tolerance

Part #	Capacity	Volts	(Dia. x Length)	Price
C-H4D7-100	4.7 µF	100	.95" x 2.75"	$25.39
C-H1-200	1.0 µF	200	.68" x 2.00"	13.89
C-H3-200	3.0 µF	200	.92" x 2.88"	24.29
C-HD1-400	.1 µF	400	.41" x 1.28"	7.79
C-HD15-400	.15 µF	400	.43" x 1.25"	9.39
C-HD22-400	.22 µF	400	.55" x 1.50"	10.19
C-HD47-400	.47 µF	400	.59" x 2.00"	11.49
C-HD68-400	.68 µF	400	.76" x 2.00"	15.79
C-H1-400	1.0 µF	400	.78" x 2.50"	19.49
C-H2-400	2.0 µF	400	.98" x 3.00"	24.69
C-HD1-600	.1 µF	600	.50" x 1.75"	10.39
C-HD22-600	.22 µF	600	.62" x 2.00"	12.99
C-HD33-600	.33 µF	600	.57" x 2.25"	16.49
C-HD47-600	.47 µF	600	.80" x 2.50"	19.49
C-HD022-1000	.022 µF	1000	.44" x 1.25"	8.79
C-HD047-1000	.047 µF	1000	.54" x 1.75"	10.89
C-HD01-1600	.01 µF	1600	.39" x 1.17"	8.79

auricap

High resolution capacitors. Used in Airtight, Bottlehead and Rowe! Tolerance- ±10%

Jennifer WhiteWolf-Crock of Jena Labs, www.jenalabs.com writes: "Auricap has become my reference standard for audio caps. My customers always comment about how much better and more natural their audio gear sounds when I install Auricaps. The highs are smooth and clear without tizzyness or hash or dulling roll off. The mids are meaty and full of emotions when the source offers it. 'Three D' sound staging should be Auricaps middle name. Bass is tight and well connected, chesty and textured with power and authority. Best of all is not that these separate frequency groups sound so good as separate elements, but that they sound so 'together' and 'as one whole' when music plays through them. I sense no loss of rhythm, pacing, or emotion in circuits that employ these parts. An outstanding technical feat."

Part #	Capacity	Volts	(Dia. x Length)	Price
C-AUD1-450	.1 µF	450	.42" x .53"	$6.25
C-AUD22-450	.22 µF	450	.50" x .60"	7.55
C-AUD33-450	.33 µF	450	.60" x .65"	7.95
C-AUD47-450	.47 µF	450	.60" x .78"	8.65
C-AUD68-450	.68 µF	450	.69" x .87"	9.35
C-AU1-450	1 µF	450	.77" x .90"	10.55
C-AU1D5-450	1.5 µF	450	.76" x 1.17"	10.95
C-AUD0022-600	.0022 µF	600	.35" x .40"	8.45
C-AUD0082-600	.0082 µF	600	.51" x .55"	8.95
C-AUD01-600	.01 µF	600	.36" x .40"	5.95
C-AUD022-600	.022 µF	600	.45" x .53"	6.30
C-AUD047-600	.047 µF	600	.52" x .65"	7.00
C-AU1-600	1 µF	600	1.27" x 1.40"	25.95

Solen "Fast" Capacitors

Solen "FAST CAPACITORS" are made of the highest quality aluminum metalized polypropylene film available. They will directly enhance the efficiency of loudspeaker and other electronic equipment.

- Very Low Dielectric Absorption Factor
- Very Low Equivalent Series Resistance
- Very Low Inductance
- Very High Resonant Frequency
- Ultra Linear Impedance Characteristics
- Very Low Dissipation Factor
- Very High Insulation Resistance
- Made in France

250VDC, ±5% tolerance

Part #	µF	Size (mm)	1-9	10+
C-FT1-250	1.0	11 x 21	$1.95	$1.75
C-FT1D5-250	1.5	12 x 22	2.25	2.05
C-FT2D2-250	2.2	14 x 22	2.45	2.20
C-FT3D3-250	3.3	16 x 25	2.75	2.50
C-FT4D7-250	4.7	18 x 27	3.15	2.85
C-FT5D1-250	5.1	19 x 27	3.20	2.90
C-FT6D8-250	6.8	20 x 30	3.60	3.25
C-FT8D2-250	8.2	21 x 33	4.15	3.75
C-FT10-250	10	23 x 33	4.25	3.85
C-FT15-250	15	25 x 38	6.65	5.99
C-FT22-250	22	28 x 43	8.90	7.99
C-FT39-250	39	34 x 48	11.95	10.75
C-FT47-250	47	38 x 48	14.45	12.99
C-FT56-250	56	39 x 53	20.05	17.99
C-FT68-250	68	41 x 58	23.35	20.99
C-FT82-250	82	45 x 58	27.90	25.10

630VDC, ±5% tolerance

Part #	µF	Size (mm)	1-9	10+
C-FSD1-630	0.1	9 x 17	$1.45	$1.30
C-FSD15-630	0.15	9 x 20	1.45	1.30
C-FSD18-630	0.18	10 x 20	1.50	1.35
C-FSD22-630	0.22	11 x 20	1.55	1.40
C-FSD27-630	0.27	11 x 22	1.55	1.40
C-FSD33-630	0.33	12 x 22	1.55	1.40
C-FSD39-630	0.39	12 x 22	1.55	1.40
C-FSD47-630	0.47	13 x 22	1.60	1.45
C-FSD56-630	0.56	14 x 22	1.60	1.45
C-FSD68-630	0.68	15 x 22	1.90	1.70
C-FSD82-630	0.82	15 x 25	1.90	1.70
C-FS1-630	1.0	16 x 25	1.90	1.70
C-FS1D5-630	1.5	18 x 27	2.25	1.99
C-FS2D2-630	2.2	19 x 33	2.40	2.15
C-FS3D3-630	3.3	24 x 33	2.75	2.50
C-FS4D7-630	4.7	25 x 38	3.40	3.05
C-FS5D6-630	5.6	28 x 38	3.70	3.35
C-FS6D8-630	6.8	30 x 38	4.10	3.70
C-FS8D2-630	8.2	30 x 45	4.75	4.30
C-FS10-630	10	32 x 45	5.20	4.70
C-FS15-630	15	36 x 53	6.70	5.99
C-FS22-630	22	42 x 58	8.80	7.95
C-FS33-630	33	49 x 63	10.90	9.80
C-FS39-630	39	53 x 63	14.90	13.40
C-FS47-630	47	54 x 72	15.70	14.15

MALLORY Metalized Polyester Tubular

Tolerance ±10%, non-inductive, self healing windings, axial leads.

Part #	µF	Size	1-9	10-49	50+
C-MD001-630	.001	0.20" x 0.43"	$0.61	$0.57	$0.50
C-MD0022-630	.0022	0.20" x 0.43"	.67	.62	.55
C-MD0047-630	.0047	0.20" x 0.43"	.70	.65	.58
C-MD01-630	.01	0.24" x 0.65"	.73	.68	.60
C-MD022-630	.022	0.28" x 0.65"	.81	.76	.67
C-MD047-630	.047	0.32" x 0.81"	.90	.84	.74
C-MD1-630	.1	0.34" x 1.10"	1.13	1.05	.94
C-MD22-630	.22	0.45" x 1.10"	1.42	1.32	1.18
C-MD47-630	.47	0.59" x 1.30"	2.29	2.13	1.90

XICON

Great small polypropylene coupling capacitors. Radial Leads.

Part #	µF	Size	1-24	25+
C-XPD001-630	.001	.44" x .26"	$0.48	$0.43
C-XPD0022-630	.0022	.45" x .28"	.48	.43
C-XPD0047-630	.0047	.51" x .38"	.48	.43
C-XPD01-630	.01	.48" x .32"	.48	.43
C-XPD022-630	.022	.48" x .43"	.52	.47
C-XPD047-630	.047	.66" x .45"	.72	.65
C-XPD1-630	.1	.87" x .54"	.80	.72
C-XPD22-630	.22	1.15" x .60"	1.10	.99
C-XPD47-630	.47	1.15" x .86"	1.98	1.78

Black Beauty

NOS. The real thing!

Part #	µF	Size	Price
C-BBD0068-600	.0068	.37" D x 1.25"	$0.75

When ordering capacitors you want to look for three things: the type of capacitor, the capacity (micro or pico farads) and the voltage rating. Our capacitor part numbers read per the following example:

C-TD01-400
1 2 3

1) Capacitor - Type

2) Capacity - micro or pico farads
D is decimal point (0.01)
3) Voltage Rating (400VDC)

Unless noted, capacity is given in microfarads (µF). If the part number has just the micro or pico farads listed then the voltage is the same for all values and is listed in the description of the part. An example of this is the silver mica capacitors.

Metalized Polyester Tubular

Tolerance ±10%, non-inductive, self healing windings, axial leads.

Part #	Diameter	Length	1-9	10-49	50+
400 Volt					
C-TD01-400	0.22"	0.55"	$0.38	$0.34	$0.29
C-TD015-400	0.22"	0.55"	.38	.34	.29
C-TD022-400	0.22"	0.55"	.38	.34	.29
C-TD033-400	0.24"	0.55"	.42	.38	.32
C-TD047-400	0.28"	0.55"	.42	.38	.32
C-TD068-400	0.26"	0.75"	.42	.38	.32
C-TD1-400	0.30"	0.75"	.48	.43	.36
C-TD15-400	0.33"	0.75"	.53	.48	.40
C-TD22-400	0.39"	0.75"	.60	.54	.45
C-TD33-400	0.39"	0.98"	.65	.59	.49
C-TD47-400	0.45"	0.98"	.66	.60	.50
C-TD68-400	0.51"	1.26"	.93	.84	.70
C-T1-400	0.59"	1.26"	1.05	.95	.79
C-T2D2-400	0.79"	1.26"	2.03	1.83	1.53
630 Volt					
C-TD001-630	0.18"	0.39"	.61	.56	.49
C-TD0015-630	0.18"	0.39"	.61	.56	.49
C-TD0022-630	0.18"	0.39"	.57	.51	.43
C-TD0033-630	0.18"	0.39"	.57	.51	.43
C-TD0047-630	0.18"	0.39"	.57	.51	.43
C-TD0068-630	0.18"	0.39"	.57	.51	.43
C-TD01-630	0.24"	0.55"	.42	.38	.32
C-TD015-630	0.26"	0.55"	.42	.38	.32
C-TD022-630	0.26"	0.55"	.44	.40	.33
C-TD033-630	0.26"	0.75"	.57	.51	.43
C-TD047-630	0.30"	0.75"	.52	.47	.39
C-TD068-630	0.33"	0.75"	.58	.52	.44
C-TD1-630	0.39"	0.75"	.66	.59	.50
C-TD15-630	0.43"	0.75"	.71	.64	.53
C-TD22-630	0.43"	0.98"	.75	.68	.56
C-TD33-630	0.47"	0.98"	.87	.78	.65
C-TD47-630	0.51"	1.26"	.98	.88	.74
C-TD68-630	0.59"	1.26"	1.13	1.02	.85
C-T1-630	0.67"	1.26"	1.45	1.31	1.09
C-T1D5-630	0.75"	1.26"	1.98	1.78	1.49
C-T2D2-630	0.79"	1.85"	2.55	2.30	1.91

Metalized Polypropylene Tubular

Tolerance ±10%, +105° C, non-inductive, self healing windings, axial leads.

Part #	Diameter	Length	1-24	25+
C-UD001-630	0.25"	0.58"	$0.72	$0.62
C-UD0015-630	0.25"	0.58"	.76	.65
C-UD0022-630	0.25"	0.58"	.76	.65
C-UD0033-630	0.25"	0.58"	.76	.66
C-UD0047-630	0.25"	0.58"	.76	.66
C-UD0068-630	0.25"	0.58"	.76	.66
C-UD0082-630	0.25"	0.58"	.76	.66
C-UD01-630	0.26"	0.58"	.52	.45
C-UD015-630	0.30"	0.58"	.54	.46
C-UD022-630	0.34"	0.58"	.62	.53
C-UD033-630	0.34"	0.81"	.89	.76
C-UD047-630	0.36"	0.81"	.87	.74
C-UD068-630	0.36"	1.15"	.95	.81
C-UD1-630	0.42"	1.15"	.95	.81
C-UD15-630	0.48"	1.15"	1.26	1.08
C-UD22-630	0.50"	1.34"	1.28	1.09
C-UD33-630	0.61"	1.34"	1.66	1.42
C-UD47-630	0.71"	1.34"	1.91	1.63
C-UD68-630	0.97"	1.34"	2.72	2.32

Sprague Atom

Low leakage current, long shelf life. Ideal for application in guitar amps, musical equipment, TV sets, auto radios, radio-phono combinations, and electronic testing equipment. Operating temperature -40°C to +85°C (6WVDC - 100WVDC) -20°C to +85°C (101WVDC - 600WVDC).

Part #	Diameter	Length	1-24	25+
C-SA25-25	0.25"	0.50"	$1.35	$1.22
C-SA250-25	0.38"	0.94"	1.56	1.41
C-SA25-50	0.25"	0.68"	1.35	1.22
C-SA50-50	0.31"	0.81"	1.36	1.23
C-SA100-100	0.44"	1.50"	2.20	1.98
C-SA8-150	0.38"	0.81"	1.48	1.33
C-SA10-150	0.38"	0.81"	1.48	1.33
C-SA100-350	1.0"	2.63"	5.95	5.36
C-SA16-475	0.88"	1.63"	3.95	3.56
C-SA8-450	0.50"	1.75"	2.65	2.39
C-SA80-450	1.0"	2.63"	5.95	5.36
C-SA100-450	1.25"	3.125"	7.25	6.53
C-SA10-500	0.75"	1.69"	4.10	3.69
C-SA20-500	0.88"	2.25"	4.55	4.10
C-SA40-500	1.0"	2.38"	5.25	4.73
C-SA20-600	1.0"	3.63"	9.25	8.33

United Chemi-con Capacitors

Made in the US by the Sprague Atom manufacturer. While Supplies Last!

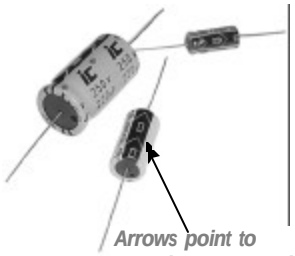
Part #	Diameter	Length	1-24	25+
C-UC100-350	1.0"	2.63"	$4.95	$4.25
C-UC100-450	1.25"	3.125"	6.25	5.50
C-UC10-500	0.75"	1.69"	3.10	2.65
C-UC40-500	1.0"	2.38"	4.25	3.75

High Grade Multisection Electrolytic Capacitors

Made in Germany.

Part #	Diameter	Length	Used in	Price
C-EM25-25-25	1.0"	2.0"		$10.50
C-EM8-8-450	1.0"	1.5"	Vox AC30	10.75
C-EM33-33-450	1.0"	2.0"		10.95

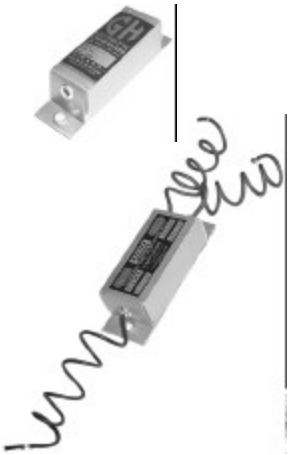
Axial Lead Electrolytic



Highest quality low leakage tubular electrolytic capacitors. Rated for 85°C operation. Tolerance -20%, +50%.

Part #	Diameter	Length	1-9	10-49	50+
C-ET47-35	0.63"	1.00"	$0.50	$0.45	$0.38
C-ET10-50	0.25"	0.49"	.51	.46	.38
C-ET22-50	0.25"	0.63"	.63	.57	.47
C-ET33-50	0.32"	0.63"	.63	.57	.47
C-ET47-50	0.32"	0.63"	.71	.64	.53
C-ET4D7-160	0.32"	0.63"	1.75	1.58	1.32
C-ET10-160	0.40"	0.79"	.83	.75	.62
C-ET22-160	0.49"	0.98"	1.03	.93	.77
C-ET33-160	0.49"	1.18"	1.41	1.27	1.06
C-ET47-160	0.49"	1.18"	1.53	1.38	1.15
C-ET100-160	0.63"	1.18"	2.39	2.15	1.79
C-ET220-160	0.70"	1.50"	2.39	2.15	1.79
C-ET47-250	0.63"	1.25"	1.95	1.76	1.47
C-ET220-250	0.87"	1.60"	4.95	4.25	3.75
C-ET4D7-350	0.40"	0.98"	.89	.80	.67
C-ET10-350	0.49"	1.18"	1.05	.95	.79
C-ET22-350	0.63"	1.18"	1.69	1.52	1.27
C-ET33-350	0.63"	1.57"	2.02	1.82	1.52
C-ET47-350	0.71"	1.58"	2.55	2.30	1.91
C-ET100-350	0.98"	2.36"	2.43	2.19	1.82
C-ET220-350	1.00"	2.13"	6.95	5.95	5.20
C-ET4D7-450	0.49"	1.18"	1.38	1.24	1.04
C-ET10-450	0.63"	1.18"	1.28	1.15	.96
C-ET22-450	0.71"	1.57"	1.99	1.79	1.49
C-ET33-450	0.88"	1.57"	2.76	2.49	2.07
C-ET47-450	0.88"	1.96"	3.89	3.50	2.92
C-ET100-450	0.98"	2.36"	4.62	4.16	3.47
C-ET10-500	0.63"	1.18"	2.32	2.09	1.74
C-ET22-500	0.63"	1.57"	2.86	2.58	2.15
C-ETKIT	Six each of: 22@50, 22@160, 33@160, 100@160, 22@450, 33@450, 47@450, 100@450				95.47

Arrows point to negative or ground end of cap.



Reproduction Electrolytic Box Capacitors

Fresh stock capacitors resemble original capacitors used in table radios during the 1930's and 1940's. All have standard 3" mounting centers and common negatives. All measure 2 1/2" x 13/16" x 7/8".

Part #	capacity@volts	Reproduction of:	Price
C-EB4-200	4@200	GH	$12.95
C-EB8-200	8@200	GH	12.95
C-EB16-200	16@200	GH	12.95
C-EB30-200	30@200	GH	13.95
C-EB12-250	12@250	GH	13.95
C-EB8-450	8@450	GH	16.95
C-EB4-4-200	4/4@200	Solar	16.95
C-EB4-8-200	4/8@200	Solar	16.95
C-EB8-8-200	8/8@200	Solar	16.95
C-EB8-12-200	8/12@200	Solar	17.50
C-EB8-16-200	8/16@200	Solar	16.95
C-EB16-16-200	16/16@200	Solar	16.95
C-EB8-8-450	8/8@450	Solar	16.95

Silver Mica

500 volt, 5% tolerance. Dipped epoxy coating. Capacitance in pico farads.

Part #	pF	1-24	25+
C-SM22	22	$0.69	$0.62
C-SM47	47	.71	.64
C-SM68	68	.73	.68
C-SM82	82	.78	.70
C-SM100	100	.79	.71
C-SM150	150	.81	.73
C-SM220	220	.83	.75
C-SM250	250	.85	.77
C-SM300	300	.87	.78
C-SM360	360	.96	.86
C-SM390	390	1.05	.95
C-SM500	500	1.09	.98
C-SM680	680	1.20	1.08
C-SM820	820	1.20	1.08
C-SM1000	1000	1.20	1.08

Ceramic Disc

Part #	pF	Tolerance	1-24	25+
2,000 WVDC				
C-D390-2000	390	±10%	$0.15	$0.13
C-D470-2000	470	±10%	.18	.16
C-D1000-2000	1000	±10%	.24	.22
C-D2200-2000	2200	±10%	.39	.35
3,000 WVDC				
C-D100-3000	100	±10%	.39	.35
C-D330-3000	330	±10%	.39	.35
C-D470-3000	470	±10%	.39	.35
C-D1000-3000	1000	±10%	.43	.39
C-D5000-3000 WSL*	5000	±20%	1.39	1.25
C-D10000-3000	10000	±20%	1.41	1.27
6,000 WVDC				
C-D220-6000	220	±10%	.44	.40
C-D470-6000	470	±10%	.62	.56
C-D560-6000	560	±10%	.62	.56
C-D1000-6000	1000	±20%	.62	.56
C-D2200-6000 WSL*	2200	±20%	.98	.88
C-D3300-6000 WSL*	3300	±20%	1.25	1.13
10,000 WVDC				
C-D500-10000	500	±20%	1.03	.93
C-D1000-10000 WSL*	1000	±20%	1.05	.95
C-D2500-10000 WSL*	2500	±20%	1.65	1.49

**While Supplies Last!*

Conversions

To convert pico farads (pF) to micro farads (µF), multiply by .000001 (2200 pF = .0022 µF)

To convert micro farads (µF) to pico farads (pF), multiply by 1,000,000 (.0005 µF = 500 pF)

FP Type Capacitors

These high voltage, electrolytic can capacitors, also known as "twist-lock" or "FP" capacitors, represent a bygone era of the radio, TV and the early electronics industry. They combine the convenience of multi-section design with easy mounting. With the transfer of FP capacitor manufacturing equipment, (much of it built by Mallory, the inventor of the FP type), to CE Manufacturing LLC, customers can be assured of a quality American-made product without the fear of obsolescence. These capacitors are especially applicable to new designs in the growing market of vacuum-tube audio and musical equipment manufacturing as well as in the industrial electronics industry.

Part #	capacity@volts	Measurement	1-9	10+
C-EC20-20-450	20/20@450	1" x 2"	$26.95	$24.95
C-EC20X4-475	20/20/20/20@475	1 3/8" x 2"	32.95	29.95
C-EC30X3-525	30/30/30@525	1 3/8" x 3"	33.95	31.95
C-EC4020X2-525	40/40/20/20@525	1 3/8" x 3"	35.95	33.95
C-EC40-20X3-525	40/20/20/20@525	1 3/8" x 2 1/2"	34.95	32.95
C-EC40X3-525	40/40/40@525	1 3/8" x 3"	34.95	32.95
C-EC80-40-30-20	80/40/30/20@525	1 3/8" x 3 1/2"	35.95	33.95
C-EC100-100-500	100/100@500	1 3/8" x 4"	34.95	32.95

Twist Mount Can Mounting Plate

Phenolic insulator or metal plate for mounting FP type can capacitors.

Description	Part #	Price
1" diameter can insulator	S-H121	$1.25
1" diameter can metal plate	S-H121M	1.50
1 3/8" diameter can insulator	S-H120	1.25
1 3/8" diameter can metal plate	S-H120M	1.50

F & T High Grade Multisection Electrolytic Can Capacitors

Made in Germany.

Part #	capacity@volts	Measurements	Mounting	Price
C-EC16-16-450FT	16/16@450	1" x 2"	7/8" hole in chassis with nylon nut	$10.75
C-EC50-50-500FT	50/50@500	1 3/8" x 2"	Clamp required	11.95

JJ Electronic Capacitors

Great for use in Marshall™ amplifiers. Clamp Required.

Part #	Capacity@Volts	Measurements	Price
C-EC220-385	220@385	1 1/5" x 2"	$8.95
C-EC32-32-500	32/32@500	1 3/8" x 2"	9.95
C-EC50-50-500	50/50@500	1 3/8" x 2"	10.95
C-EC100X2-500	100/100@500	1 3/8" x 2 7/8"	12.95
C-EC40-20X3-500	40/20/20/20@500	1 3/8" x 2"	12.95

Can Capacitor Mounting Clamp

Clamp for mounting electrolytic capacitor cans in vertical position. Supplied with #6-32 screw and nut.

Description	Part #	Price
1" diameter	S-H123	$1.95
1 3/8" diameter	S-H122	1.95
1 3/4" diameter	S-H124	1.95
2" diameter	S-H125	1.95

Multi & Single Section Tubular Electrolytics

Fresh stock - no leakage

Part #	capacity@volts	Measurements	Price
C-ER33-47-160	33/47@160	5/8" x 2 3/4"	$6.50
C-ER47-47-160	47/47@160	5/8" x 2 3/4"	6.50
C-ER47-80-160	47/80@160	1" x 3 5/8"	8.50
C-ET10-10	10/10@450	5/8" x 2 3/4"	8.50
C-ER33-47-47	33/47/47@160	1" x 3 5/8"	6.50
C-ER33-33-47	33/33/47@160	1" x 3 5/8"	8.50
C-ER33-47-22	33/47@160, 22@25	5/8" x 2 3/4"	8.50
C-ET16-800	16@800, 900 surge	1 1/8" x 4 1/4"	11.50
C-ET25-800	25@800, 900 surge	1 1/8" x 4 1/4"	12.95

Can Capacitor Specials

NOS. Subject to stock on hand. FP is a twist lock, PFP is pc mount which can be used as a twist mount.

Part #	capacity@volts	Type & Size	Price
C-EC20-40-5C-8C	20@350, 40@300, 500/800@50	Mallory PFP, 1 3/8" x 3"	$2.95
C-EC30-500	30@400, 500@50	FP, 1" x 3"	2.45
C-EC220-70-150	220/70@150	PFP, 1" x 3"	2.95
C-EC200-200-40	200/200@175, 40@300	PFP, 1 3/8" x 2 3/4"	.95
C-EC200-150	200/150@350	Nippon Chemi-con PFP, 1 3/8" x 4 1/2"	1.25
C-EC30-30-30-10	30/30/30/10@475	Aero M FP, 1 3/8" x 3 1/2"	29.95
C-EC40-20-20	40/20/20@500	Mallory FP, 1 3/8" x 2 1/2"	29.95
C-EC10-10-100	10@300, 10@250, 100@15	FP, 1" x 2 1/2"	5.95
C-EC10-10-350	10/10@350	FP, 1" x 1 1/2"	5.95
C-EC20-450	20@450	FP, includes insulator, 1" x 2"	8.95
C-EC40-30-10-50	40@400, 30@350, 10@300, 50@25	FP, 1 3/8" x 2"	5.95
C-EC40X3-200	40/40/40@200	FP, 1" x 2 1/2"	5.95
C-EC10-100	10@250, 100@15	FP, 1" x 2"	5.95
C-EC10-100-20	10@450, 100@50, 20@25	FP, 1" x 3"	5.95

1

2

Computer Grade Capacitors

Description	Part #	Price
[1] 1200 µF@100 VDC. Aero M brand. Approximately 1 3/8" dia x 3 1/2" h	C-EC1200-100	$9.95
[2] 23,000 µF@40 VDC. Mallory brand. Approximately 2" dia x 4 1/8" h	C-EC23000-40	9.95

Can Capacitor Mounting Clamp

Clamp for mounting electrolytic capacitor cans in vertical position. Supplied with #6-32 screw and nut.

Description	Part #	Price
1" diameter	S-H123	$1.95
1 3/8" diameter	S-H122	1.95
1 3/4" diameter	S-H124	1.95
2" diameter	S-H125	1.95

Miscellaneous Can Clamp

2" "C" clamp, 2 hole mounting
1" diameter S-H411 $1.95

NOS Electrolytic Caps

While Supplies Last!

Part #	capacity@volts	Size	Type	Price
C-ETD3-600	.3@600	7/8" x 2"	axial	$1.95
C-ET200-30	200@90V 30@60V	2 5/8" x 1"	radial/clamp	.35
C-ET200-150	200@150	2 1/8" x 1"	axial, Sprague Atom	1.50
C-ET22-450-105	22@450 - 105°C rated	1 5/8" x 5/8"	axial	1.50
C-X1-400	1.0@400	1" x 2"	axial, Sprague Atom	4.95
C-ET4700-16	4700@16	1 5/8" x 5/8"	axial	2.25
C-ET2200-25	2200@25	1 5/8" x 5/8"	axial	2.25
C-ET220-50	220@50	5/8" x 3/8"	radial	1.75

Mixed Bag of Capacitors

Electrolytic non-polarized axial lead capacitors. Values range from 12-470 µF, 100V. Used for speaker crossovers. 20 pieces per bag. C-BAGO-100NP $1.95

Mixed Bag of PET Capacitors

Metalized polyester (PET), round axial lead, 100VDC rating. Values ranging from 1-10 µF. 20 pieces per bag.
C-BAGO-100PET $1.95

APC Variable Trimmer Capacitors

Subject to stock on hand

Description	Part #	Price
[1] 3-12 pF, ceramic	C-VT12	$0.95
[2] 2.5-13 pF, ceramic	C-VT13	1.50
[3] 1.5-15pF, ceramic	C-VT1D5-15	2.25
[4] 2.5-9.5pF	C-VT9D5	1.50
[5] 0-11 pF	C-VT0-11	2.95
[6] 1-23 pF	C-VT1-23	3.95
[7] 1-3.5 pF	C-VT1-3D5	2.95
[8] 1-50 pF	C-VT1-50	4.95

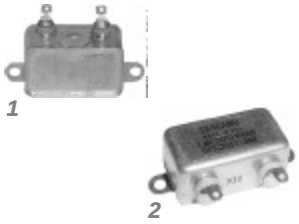
Variable Capacitors

Description	Part #	Price
[1] Single section 100pF, 1 3/16" long frame, 1/4" diameter shaft 7/8" long, teflon shaft, ceramic base, screwdriver or knob adjustable, full rotation	C-V100P	$17.95
[2] Single section 365 pF, 1 3/16" long frame, 1/4" diameter shaft 9/16" long, capacity increases with clockwise rotation	C-V365	11.95
[3] Two section 233 and 86 pF, 1 1/8" long frame, 1/4" diameter shaft 3/8" long,capacity increases with counterclockwise rotation	C-V233-86	17.95
[4] Two section 17 plate 140-30 pF oscillator section with trimmer, 23 plate 300-30 pF RF section. Capacity increases with counterclockwise rotation. 2 9/16" x 1.8" x 1 5/8", 1/4" rounded shaft	C-V300-140	16.95
[5] Three section, 365 pF, 3 1/4" long frame, 1/4" x 1" shaft. Capacity increases with counterclockwise rotation	C-V365-X3	24.95
[6] Three section 500 pF, 3 3/16" long frame, 1/4" diameter shaft, 11/16" long, capacity increases with counterclockwise rotation While Supplies Last!	C-V500-X3	24.95

Oil Filled Capacitor (Bathtub Type)

While Supplies Last!

Description	Part #	Price
[1] 0.5 µF@600 VDC. Aerovox brand. Approximately 1 1/2" length, 1 3/4" wide, 7/8" deep. Mounting Centers: 2 1/4"	C-OFD5-600	$5.95
[2] 0.1 µF@1000 VDC. Aerovox brand. Approximately 1 3/4" length, 1" wide. Mounting Centers: 2 1/2"	C-OFD1-1000	8.95



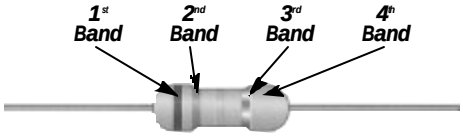
Snubber Capacitor

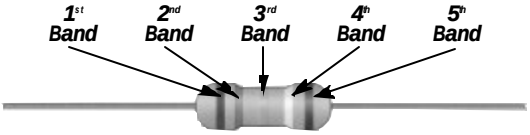
GE brand, no PCB's, Made in USA.

Description	Part #	Price
1.25 µF@1000 VDC. Approximately 2" dia. x 1 1/4" h	C-X1D25-1000	$6.95

How to "Read" a Resistor

Most resistors are color coded with multiple bands to identify the resistance value and the tolerance. While actually measuring the resistance of a resistor before using it is a good idea, it's also a good idea to know what the resistance is supposed to be. Resistors (especially carbon composition) can drift in their actual resistance. Keep a stock of fresh resistors on hand. Use the following Standard EIA color code tables to identify resistors. See the gift page (88) for color code chart you can purchase.





4 band: ±2%, ±5% and ±10% tolerance

Color	1st band (1st figure)	2nd band (2nd figure)	3rd band (multiplier)	4th band (tolerance)
Black	0	0	10^0	
Brown	1	1	10^1	
Red	2	2	10^2	±2%
Orange	3	3	10^3	
Yellow	4	4	10^4	
Green	5	5	10^5	
Blue	6	6	10^6	
Violet	7	7	10^7	
Gray	8	8	10^8	
White	9	9	10^9	
Gold			10^{-1}	±5%
Silver			10^{-2}	±10%

5 band: ±.1%, ±.25%, ±.5% and ±1% tolerance

Color	1st band (1st figure)	2nd band (2nd figure)	3rd band (3rd figure)	4th band (multiplier)	5th band (tolerance)
Black	0	0	0	10^0	
Brown	1	1	1	10^1	±1%
Red	2	2	2	10^2	
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	±0.5%
Blue	6	6	6	10^6	±0.25%
Violet	7	7	7	10^7	±0.1%
Gray	8	8	8	10^8	
White	9	9	9	10^9	
Gold				10^{-1}	
Silver				10^{-2}	

How to Order Resistors

1) Determine the type of resistor you want. For example, carbon film, 1 watt. The part number begins with "R-B" for this type.
2) Determine the ohm value you want. For example, 1K (1,000 ohms).
3) Order "R-B1K" in the package size you want. Example: R-B1K, 20 pcs.

XICON Carbon Film Resistors

Carbon film resistors are made by vacuum depositing a thin carbon film on a ceramic form. Available in 1/2 and 1 watt ratings. A good choice for applications which require a steady, low power drop.

- ±5% tolerance
- -55° C ~ 155° C operating range
- High stability
- Low noise
- Moisture stable
- EIA color coded
- High quality performance at an economical price

1/2 Watt .4" long x .14" dia., 350 V working, 700 V overload — R-A(OHM)

Pkg/5	$0.50
Pkg/20	1.20
Pkg/100	3.00

1 Watt .5" long x .14" dia., 500 V working, 1,000 V overload — R-B(OHM)

Pkg/5	$0.85
Pkg/ 20	2.40
Pkg/100	8.80

1.0	30	390	2.7K	27K	330K
1.5	33	470	3.0K	33K	470K
2.0	39	510	3.3K	39K	680K
2.4	47	620	3.9K	47K	820K
2.7	51	680	4.3K	51K	1.0M
3.3	68	750	4.7K	56K	1.5M
4.7	82	820	5.1K	68K	2.0M
5.1	100	1.0K	5.6K	75K	3.0M
6.8	110	1.1K	6.2K	82K	4.7M
8.2	120	1.2K	6.8K	100K	6.8M
10	150	1.5K	7.5K	110K	8.2M
12	180	1.6K	8.2K	120K	
15	220	1.8K	10K	150K	
20	240	2.0K	15K	200K	
22	270	2.2K	20K	220K	
27	330	2.4K	22K	270K	

XICON Carbon Composition Resistors

Made by mixing carbon particles with a binder molded into a cylindrical shape, then baked. Resistance decreases as temperature increases. Resistance more prone to drifting than with other types. Available in 1/2 watt ratings. Standard "classic" resistor. 0.38" long x 0.41" diameter.

- ±5% tolerance
- -55° C ~ 125° C operating range
- 350V working, 700V overload
- Low Inductance
- Low capacitance
- Better pulse endurance characteristics than film type resistors
- EIA color coded.

Below 1 meg ohm — R-I(OHM)

Pkg/5	$1.25
Pkg/20	4.00
Pkg/100	12.50

1 meg ohm and Above — R-J(OHM)

pkg/5	$1.75
pkg/20	5.80
pkg/100	20.00

2.2	68	680	6.2K	68K	680K
2.7	82	750	6.8K	75K	750K
3.0	100	820	7.5K	82K	820K
3.9	110	1.0K	8.2K	100K	1.0M
4.7	120	1.1K	10K	110K	1.2M
5.1	150	1.2K	12K	120K	1.5M
6.8	180	1.5K	15K	150K	2.2M
8.2	220	1.8K	20K	200K	2.4M
10	240	2.2K	22K	220K	2.7M
12	270	2.4K	27K	240K	3.3M
15	330	2.7K	33K	270K	4.7M
20	360	3.3K	39K	330K	5.6M
27	390	3.6K	47K	390K	6.8M
36	470	4.7K	51K	470K	8.2M
47	510	5.1K	56K	510K	
51	620	5.6K	62K	620K	

Metal Film Resistors

XICON

Consist of a resistive element of an extremely thin layer of metal alloy vacuum deposited on a substrate. Precise and quiet.

1/2 watt ratings. 0.4" long x 0.14" diameter.

- ±1% tolerance
- -55° C ~ 155° C operating range
- 350V working, 700V overload
- Epoxy coated
- Nickel chromium ceramic substrate
- Alloy coated leads
- Welded end caps
- EIA color coded.

R-M(OHM)

pkg/5 $0.85
pkg/20 2.40
pkg/100 6.90

10	120	680	5.1K	47K	240K
12	150	820	6.2K	51K	270K
15	180	1.0K	6.8K	62K	330K
20	220	1.1K	7.5K	68K	470K
27	240	1.2K	8.2K	75K	511K
36	270	1.5K	10K	82K	680K
47	330	2.2K	15K	100K	820K
51	360	2.4K	20K	110K	1.0M
68	390	2.7K	22K	120K	1.5M
82	470	3.3K	27K	150K	2.2M
100	510	3.9K	33K	200K	
110	620	4.7K	39K	220K	

Metal Oxide Power Resistors

XICON

Metal Oxide resistors are for applications where stability under high temperature conditions is required. Available in 1 and 2 watt ratings.

- ±5% tolerance
- -55° C ~ 240° C operating range (derated over 70° C)
- 350V working, 600V overload
- Excellent flame retardant coating
- Stable performance in diverse conditions
- High purity ceramic core
- EIA color coded.

1 Watt 0.47" long x 0.20" diameter — R-E(OHM)

pkg/5 $0.90
pkg/20 2.80
pkg/100 10.50

2 Watt 0.63" long x 0.22" diameter — R-F(OHM)

pkg/5 $1.10
pkg/20 3.60
pkg/100 12.00

0.47	27	270	1.8K	10K	120K
1.0	30	300	2.0K	12K	150K
2.0	39	330	2.2K	15K	200K
2.4	47	390	2.4K	20K	220K
2.7	51	470	2.7K	22K	270K
3.3	68	510	3.0K	24K	330K
4.7	82	560	3.3K	27K	470K
5.1	100	680	3.9K	30K	510K
6.8	110	750	4.3K	33K	680K
8.2	120	820	4.7K	47K	820K
10	150	1.0K	5.1K	51K	1.0M
12	180	1.1K	6.2K	68K	
15	200	1.2K	6.8K	75K	
20	220	1.5K	7.5K	82K	
22	240	1.6K	8.2K	100K	

Power Resistors

XICON

Wire wound resistors are made by wrapping a length of high resistance wire onto an insulating form. Metal oxide resistors are made by depositing tin oxide on the substrate, providing good stability. Ceramic flame retardant package. Exceptionally small, sturdy and reliable. Available in 5 watt and 10 watt ratings.

- ±5% tolerance
- -55° C ~ 155° C operating range (derated over 70° C)
- 350V working, 700V overload
- Excellent moisture resistance
- Stable performance in diverse conditions
- Sealed with special cement
- High temperature stability

	Wire Wound	Metal Oxide
5W	0.5-47	50-25K
10W	0.5-750	1.0K-25K

5 Watt 0.86" long x 0.39" square — R-Q(OHM)

each $0.45
pkg/10 4.00

10 Watt 1.93" long x 0.39" square — R-R(OHM)

each $0.60
pkg/10 5.00

0.5	7.5	50	150	680	3.0K
1	8.2	68	200	750	4.7K
2	10	75	250	820	5.0K
3	15	82	300	1.0K	10K
4	20	100	360	1.5K	20K
5	30	110	400	2.0K	25K
6.8	47	120	500	2.7K	

Holco Resistors

Precision 1/4 watt, 0.1% tolerance resistors, excellent for use in attenuators, solid state circuits. Not for use above 200 VDC. While Supplies Last!.

R-H(OHM) $0.95 each

15	75	249	649	3480	20,000
30.1	100	301	806	4020	30,100
34.8	121	348	845	6490	
51.1	150	402	1210	7500	
64.9	174	511	1740	8450	
71.5	200	604	2490	15,000	

Bag 'O Resistors

Refill your miscellaneous resistor drawer. A minimum of 100 assorted resistors, mostly NOS carbon composition. Due to age, values have drifted, so have your ohm meter ready!

R-BAGO $2.95

CTS Pots

½ watt, ⅜" mounting, ¼" splined nylon shaft for set screw or push on. For most US made amps,

Value	Part #	Price
250K log	R-VC250KA	$3.95
500K log	R-VC500KA	3.95
1 meg log	R-VC1MA	3.95

Fender CTS Pots

CTS pots in Fender® replacement part packaging. Original replacement parts for many Fender® items.

Value	Part #	Price
5K log	R-VCTS-5K-A	$4.95
5K linear	R-VCTS-5K-L	4.95
10K log	R-VCTS-10K-A	4.95
25K linear	R-VCTS-25K-L	4.95
50K reverse log	R-VCTS-50K-RA	6.95
100K linear	R-VCTS-100K-L	4.95
500K log	R-VCTS-500K-A	4.95
3M reverse log	R-VCTS-3M-RA	5.95

Original Fender Pots

For most Stratocaster & Telecaster Guitars

Value	Part #	Price
250K ohm, Original TBX tone control	R-VTBX	$9.95
250K ohm, Split Shaft	R-V250K-SP	4.50
250K ohm, Solid Shaft	R-V250K-SS	5.25
250K ohm, Push Pull, Split Shaft	R-V250K-PP-SP	12.95
500K ohm, Split Shaft	R-V500K-SP	5.25
500K ohm, Solid Shaft	R-V500K-SS	5.25
1M ohm, Split Shaft	R-V1M-SP	6.25
1M ohm, Solid Shaft	R-V1M-SS	6.25
Hex nut for Fender® pots. Package of 12	S-HRVNT	2.50
Lock Washer for Fender® pots. Package of 12	S-HRVLW	2.50

Original Gibson Pots

For Gibson™ Guitars

Value	Part #	Price
300K ohm, Linear taper, Long shaft	R-V300-GIB	$8.95
300K ohm, Linear taper, Short shaft	R-V310-GIB	8.95
500K ohm, Audio taper, Long shaft	R-V500-GIB	8.95
500K ohm, Audio taper, Short shaft	R-V510-GIB	8.95
500K ohm, Audio taper, Push-pull, Short shaft	R-V520-GIB	15.95

Miniature Alpha Pots for Guitars

16mm, ¼" Split, knurled shaft. Push-on. Available November 2002.

Value	Part #	Price
300K ohm, Linear taper	R-VAM300KL	$1.95
500K ohm, Audio taper	R-VAM500KA	1.95
1M ohm, Audio taper	R-VAM1MA	1.95

Dunlop Effects Potentiometers

Description	Part #	Price
[1]Hot Potz Crybaby Potentiometer	P-ECB-24	$25.95
[2]Hot Potz 470k Pot	P-ECB-24A	20.25
[3]Hot Potz II Crybaby Pot	P-ECB-24B	20.25

1

2

3

Wah Pot from Fulltone

Description	Part #	Price
Potentiometer for Fulltone wah pedal	R-VWAH	$16.95

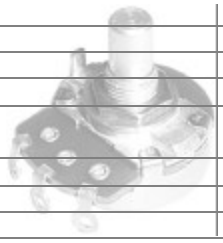
Alpha Pots

24mm carbon composition. 300° rotation. ½ watt, 500VDC rating for linear taper, ¼ watt, 250VDC rating for audio taper. ¼" diameter shaft. Solder lugs.

Single

Audio/Log

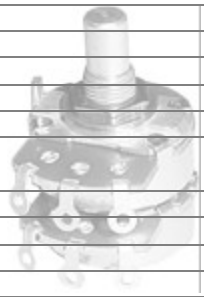
Value	Part #	Price
1K	R-VA1KA	$1.75
5K	R-VA5KA	1.75
10K	R-VA10KA	1.75
50K	R-VA50KA	1.75
500K	R-VA500KA	1.75
1M	R-VA1MA	1.75
Linear		
5K	R-VA5KL	1.75
10K	R-VA10KL	1.75
50K	R-VA50KL	1.75
100K	R-VA100KL	1.75
250K	R-VA250KL	1.75
1M	R-VA1ML	1.75
100K 2" shaft	R-VA100KLX	1.95



Dual

Audio/Log

Value	Part #	Price
10K	R-VA2X10KA	$2.95
50K	R-VA2X50KA	2.95
100K	R-VA2X100KA	2.95
250K	R-VA2X250KA	2.95
500K	R-VA2X500KA	2.95
1M	R-VA2X1MA	2.95
Linear		
50K	R-VA2X50KL	2.95
100K	R-VA2X100KL	2.95
250K	R-VA2X250KL	2.95
500K	R-VA2X500KL	2.95
1M	R-VA2X1ML	2.95



Switched Potentiometers

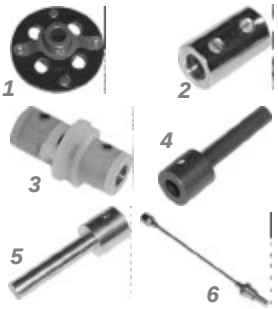
Great for antique radios! Single pole, single throw (SPST) switch, 2 amp 125VAC. 24mm body, 2" shaft, ¼" diameter, solid shaft. Available November 2002.

Value	Part #	Price
500K ohm	R-VS-500KA	$2.25
1M ohm	R-VS-1MA	2.25

Shaft Accessories

All fit ¼" shaft.

Description	Part #	Price
[1]Shaft coupler. Phenolic insulator	R-VC1	$3.00
[2]Shaft coupler. Steel with double set screws	W-HHS-120	.80
[3]Shaft coupler. Nylon insulator	W-HHS-164	2.50
[4]Shaft extender. 1¼" length. Insulating black plastic. Set screw	W-HHS-130	2.00
[5]Shaft extender. 1¼" length. Steel with set screw	W-HHS-150	4.95
[6]Flexible shaft extender. 7" overall length. Steel spring with set screw	W-HHS-166	7.95



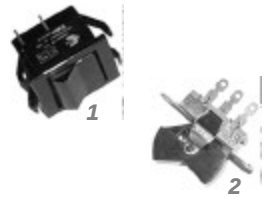
Panel Shaft Lock

1/4" collet.	W-HHS-114	$0.75

NOS Potentiometers

Carbon composition surplus pots. ±30% of values shown. Limited supply.
Most shaft lengths are ¾" long. Call for specifics

Part #	Value (ohms)	Taper	Shaft	Other	Price
R-V1K	1K	linear	¼" screwdriver	5 watt	$2.99
R-V1K1	1K		¼" round	Mallory NIB, 5W	2.95
R-V2K-L-SW	2K	linear	¼" round	switch	.75
R-V350	2K	audio	¼" round	switch	.95
R-V5K2	5K	linear	⅛" flat	min.	.45
R-V10K2	10K	linear	¼" plastic knurled	PC mount	.50
R-V15K	15K	linear	¼" flatted: ⅜" long	25W	4.95
R-V25K1	25K	linear	¼" round	switch	.75
R-V25K3	25K	audio	5/16" flatted shaft	min.	.75
R-V25K4	25K	audio	¼" dial	PC mount, switch	.75
R-V50KD4	50K	audio	¼" & 7/16"	dual control	.95
R-V50K1	50K		¼" screwdriver	Alps Brand	1.95
R-V50K2	50K	linear	¼" plastic knurled	PC mount	.50
R-V250K2	250K	linear	¼" plastic knurled	PC mount	.50
R-V500K2	500K	linear	¼" plastic knurled	PC mount	.50
R-V500K3	500K		¼" screwdriver	Allen Bradley	9.95
R-V1MAB	1M	audio	¼" screwdriver	Allen Bradley	9.95
R-V2M	2M		.185" D shaft	Push-pull switch	.95
R-V2M2	2M	linear	¼" plastic knurled	PC mount	.50
R-V2MD	2M	linear	¼" inner, 3/16" outer	dual, tap, switch	1.75
R-V5M1	5M	linear	¼" plastic knurled	PC mount	.45

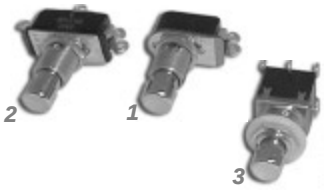


Rocker Switches

Description	Part #	Price
[1]Black standby rocker switch for Marshall™ JCM series and others. 15/16" x 1 1/16" x 1" deep	P-H490	$4.95
[1]Lighted power switch. Used for Marshall™ JCM series and others. 15/16" x 1 1/16" x 1" deep	P-H491	6.95
[2]SPDT, Black, package of 2	P-H41	.50
[2]Momentary SPST, Black, package of 2	P-H42	.50
[2]TPDT, Chromed plastic, package of 2	P-H43	.50
[2]DPDT, Brown. Package of 2	P-H38	.50
[1]DPST, on/off, Carling. 1" x 1" mounting hole. 1" x 1 1/8" x 1 1/4" deep	P-H484	1.00

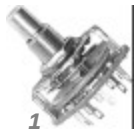
Toggle Switches

Description	Part #	Price
[5]Carling SPST toggle power and standby switch. Good Fender® replacement	P-H495	$4.95
[1]Carling SPDT 2 position toggle. Great Fender® ground switch replacement	P-H494	5.95
[2]Carling SPDT 3 position center off toggle. Great Fender® ground switch replacement	P-H496	4.95
Ball handle SPST. 6A-125V rated. 1/2" hole mount. Screw connections	P-H35-170	3.50
Bat handle DPDT. On-none-on, 20A-125V rating. 1/2" hole mount. Screw connections	P-H35-146	5.50
[3]Bat handle DPST. On-off plate. 3A, 125VAC	W-10170	2.95
[4]Bat handle SPST mini-toggle. 6 amp, 125V	W-10080	1.00



Foot Switches

Description	Part #	Price
[1]Carling SPST footswitch. Used in Fender®, etc. reverb/tremolo/channel switching pedals	P-H493	$6.25
[2]Carling DPDT footswitch, used in switching and effects units	P-H497	9.95
[3]DPDT footswitch, same switch as P-H497 but made in Taiwan	P-H498	4.95
3PDT footswitch. Authentic Fulltone manufacture!	P-H499	12.95
3PDT footswitch. Triple pole double throw. For true bypass	P-H501	10.95



Rotary Switches

Description	Part #	Price
3A 125VAC. 1 pole, 12 position, solid 1/4" shaft. Make before break (shorting)	P-H390	$1.35
[1]3A 125VAC. 1 pole, 12 position, solid 1/4" shaft. Break before make (non-shorting)	P-H391	1.40
3A 125VAC. 2 pole, 6 position, solid 1/4" shaft. Make before break (shorting)	P-H392	1.35
3A 125VAC. 2 pole, 6 position, solid 1/4" shaft. Break before make (non-shorting)	P-H393	1.40
0.3A-125V current rating, silver plated phosphor bronze contact and terminal material. 2 pole 5 position, non-shorting 1/4" round shaft, solder connections	S-H35-377	5.25

Slide Switches

While Supplies Last!.

Description	Part #	Price
Standard size. Cadmium plated solder connections. 11A-125VAC, 5A-125VDC, DPDT. Good for Fender® bright switch.	P-H35-242	$1.25
SPST. Package of 2	P-H36	.80
SPDT. Package of 2	P-H37	.80
DPDT. PC mount	P-H39	.50

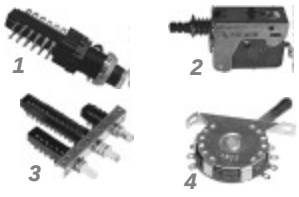
Gibson Guitar Switches & Caps

Description	Part #	Price
[1]Original, L-type with cream cap	P-SW01	$13.95
[2]Original, Straight type with cream cap	P-SW02	13.95
[3]Original, Switch cap for toggle, black	P-SW03	2.95
[3]Original, Switch cap for toggle, white	P-SW04	2.95
[3]Original, Switch cap for toggle, vintage amber	P-SW05	3.75
[3]Original, Switch cap for 5 position switch, black	P-SW06	2.75

Fender Guitar Switches

Whether you need to replace a worn switch or just want to add a little tonal variety to your favorite instrument, Fender® offers high quality, American made switches with knobs and mounting hardware.

Description	Part #	Price
3 way pickup selector used on American vintage Strats & Teles	P-SW50	$7.50
5 way pickup selector used on most American made Stratocasters	P-SW51	7.50
5 way super switch	P-SW52	11.95
4 way Tele mod	P-SW53	14.95



Miscellaneous Switches

Description	Part #	Price
[1]Power, bullet style. 12 lug PC or chassis mount	P-H482	$1.00
[2]Noble, on/off	P-H483	1.50
[3]Switch bank. 3 position	P-H03	1.00
[4]Lever. 2 circuit, 4 position non-shorting. Mallory	W-MA-5224	5.95

Individual Binding Posts

Accepts standard banana plug, test and phone tip plugs, spade lugs, alligator clips and bare wire. While Supplies Last!

[1]Red	S-H2131R	$0.95
[1]Black	S-H2131B	.95
[2]PCB type. Gold plated. Black	S-H266B	2.75
[2]PCB type. Gold plated. Red	S-H266R	2.75

All part numbers beginning with W-HHS are **H.H. Smith** *parts and are available While Supplies Last!*

Nylon Binding Posts

Insulated, gold plated. Nylon washer with gold plated inserts completely insulates post from panel. Mounts in 3/8" hole. Photos below.

[1]Red	W-HHS-1517-102	$1.75
[1]Black	W-HHS-1517-103	1.75
[1]Green	W-HHS-1517-104	1.75
[2]Same as W-HHS-1517-102 but made to meet MIL-P-55149/1. Type PB01FA01 and PB01FA02	W-HHS-1514-102	2.25
[3]Gold plated fluted brass binding post. Molded black nylon washer. For use where direct ground connection is made to panel or chassis.	W-HHS-1519	2.95
[4]Heavy duty all metal five-way binding post	W-HHS-1835	4.95
[5]Large. Red. Fluted captive head 5 way. Mounts in 1/2" hole or keyed hole for panels 1/16" to 1/4" thick	W-HHS-799-102	3.95

Miniature Binding Posts

Accepts standard .080" phone tips, #6 spade lug, miniature banana plug, alligator clip or wire. Gold plated brass with nylon insulation. Molded washers completely insulate post from panel. Mounts in 1/4" hole. Wrap around solder turret for direct wiring.

Green	W-HHS-3015-104	$2.75
Yellow	W-HHS-3015-107	2.75

Gold plated brass. Dual binding post with two red heads. Mounts in two 1/4" round holes on 1/2" centers W-HHS-3016RR 3.45

Spring Loaded Binding Posts

Spring loaded metal binding post, black cap.

6-32 external threaded post 1/4" dowel pin	W-HHS-2703-103	$2.25
6-32 internal mounting thread 1/8" dowel pin	W-HHS-2709-102	2.25

Compression Style Binding Post

Head screws down to compress wire. Internal thread for 6-32 mounting screw. W-HHS-159 $1.20

Atwater Kent Binding Post Nuts

One flat nut, one scalloped nut- Brass

Small: 3/8" diameter, 6-32 threads	P-H601	$3.95
Large: 7/16" diameter, 8-32 threads	P-H602	4.95

Early Style Binding Post

An exact reproduction of an early Philmore binding post. Precision machined from brass, nickel plated. 1/4" x 5/8" high, with screw. S-H159 $2.95

Binding Post with Thumb Screw

Nickel plated brass. Comes with screw and lockwasher W-HHS-110 2.65

Dual Binding Posts

Red and black posts, accepts either single or dual banana plugs. Mounts in two 1/2" holes on 3/4" centers, panel thickness up to 1/4". 15A rating, gold plated contacts. S-H263 $3.95

Dual metal binding post. Insulated molded black base mount. Mounts in two 1/2" holed on 3/4" centers. Heads are red & black W-HHS-1477RB 3.95

Tip Jacks

Deluxe for standard .080" tip plug. Machined contact with turret terminal. Brass body, silver finish. 10A rating. For panels up to .437" thick. Photos below.

[1]Red	S-H260	$1.50
[1]Black	S-H261	1.50

[2]Gold plated bronze with nylon hex nut lug terminal. Mounts in 1/4" hole.		
Red	W-HHS-1506-102	$0.80
Blue	W-HHS-1506-105	.80

[3]Black nylon tip jack with hex nut. Wrap-around style, mounts in 1/4" hole	W-HHS-1505-103	$0.80

[4]Gold plated bronze contact tip jack. Nylon shell with Tinnerman nut. Wrap-around style, mounts in 3/16" hole		
Red	W-HHS-1598-102	$0.60
Black	W-HHS-1598-103	.60

[5]Brown nylon tip jack with metal shell to eliminate stripping. Wrap-around style. Mounts in 1/4" hole	W-HHS-1501-108	$0.80

[6]Metal tip jack. Headless with solder lug	W-HHS-147	$0.90

[7]Insulated phone tip jack. Includes hex nut and fiber washer. Mounts in 5/16" hole		
Red	W-HHS-202-102	$0.60
Black	W-HHS-202-103	.60

[8]Red nylon tip jack with nylon washer for insulation and hex nut. Lug terminal. Mounts in 5/16" hole	W-HHS-241-102	$0.80

[9]High voltage black nylon tip jack. Heavy body and cup washer prevent high voltage flashover to panel.	W-HHS-1521-103	$0.95

Phone Tip

Standard .080" pin with .136" solder cup. Hollow tip, nickel plated.

Package of 10	S-H33-156	$6.50

Banana Jacks

Accept standard banana plugs.

Recessed, comes as a pair	S-H404-137	$0.95

Nickel plated brass body with molded nylon head. Comes with washer, hex nut and brass tinned lug. Mounts in 5/16" hole.

Red	W-HHS-221-102	$0.80
Black	W-HHS-221-103	.80
Green	W-HHS-221-104	.80
Yellow	W-HHS-221-107	.80

Insulated banana jack with hex nut and fiber washer. Mounts in a 5/16" hole W-HHS-205-102 $0.60

Thumb Screw

Nickel plated brass W-HHS-236 $0.75

1/4" Plugs

Made by G&H Industries. High quality, oxygen-free copper core phone plugs. Made in America.

Description	Part #	Price
[1]Standard mono. Nickel plated	P-H50	$2.12
[2]Right angle mono. Nickel plated	P-H60	4.45
[3]Jumbo mono. Nickel plated	P-H80	4.95
[4]Standard mono gold plated plug and nickel housing	P-H51	4.45
[5]The "quiet plug." Nickel plated. Spring loaded ground sleeve	P-H90	3.50
[6]Standard stereo plug. Nickel plated	P-H70	3.95

See Switchcraft pages 52-53 for more plugs

Generic Plugs

Generic 1/4" conductor. While Supplies Last!.

Description	Part #	Price
[1]Black plastic	S-H256	$0.75
[2]Chrome	S-H257	.95
[1]Jumbo, black plastic	S-H33-622	1.25
[3] Molded plastic, brass, hot tinned tip, PJ055B	W-HHS-217	5.00
[4]3.5mm, black plastic. Package of 5	S-H262	1.25
[4]3.5mm, metal, sold individually	W-GC-33-660	.75

Switchcraft Plugs

[1]RCA Plug. For Fender®	W-SC-3502A	$2.75
[2] 1/4" Right angle plug. For Fender®	W-SC-228	3.95

RCA Phono Plugs

Sold individually except where noted.

Description	Part #	Price
[1]Aluminum, package of 25	S-H306	$1.50
[2]Shorting bar	W-10090	1.25
[3]Male plug. Ceramic body with gold plating. Red	S-H331R	1.95
[3]Male plug. Ceramic body with gold plating. Black	S-H331B	1.95
[4]Male plug. Metal body	W-GC-36-772	.75
[5]Female plug. Metal body	W-GC-33-774	1.95

RCA Phono Plugs with Cable Holder

Aluminum, package of 3.	S-H304	$0.25
Aluminum, with easy remove handle. Package of 2.	S-H305	.25

High Quality H.H. Smith Brand Banana Plugs

While Supplies Last!

Description	Part #	Price
[1]Red, stackable	W-HHS-1511-102	$1.70
[1]Black, stackable	W-HHS-1511-103	1.70
[2]Red, with side screw	W-HHS-204-102	1.50
[2]Black, with side screw	W-HHS-204-103	1.50
[2]Green, with side screw	W-HHS-204-104	1.25

Banana Plugs

Internal stud for solder or solderless connection. Body is hex brass, tip is four leaved, phosphor bronze, nickel or gold plated spring.

Description	Part #	Price
Red (Nickel)	S-H33-032	$0.95
Black (Nickel)	S-H33-033	.75
Yellow (Nickel)	S-H33-037	.95
Green (Nickel)	S-H33-034	.95
Blue (Nickel)	S-H33-035	.95
Red (Gold screw type)	S-H264R	1.50
Black (Gold screw type)	S-H264B	1.50
Red, Tip jack to banana plug. Banana Jack hole for side stacking.	W-HHS-214-102	1.30
Black, Tip jack to banana plug. Banana Jack hole for side stacking.	W-HHS-214-103	1.30

High Quality H.H. Smith Brand Dual Banana Plugs

While Supplies Last!

Description	Part #	Price
Red, cable mounted, set screw. 3/4" center, stackable	W-HHS-1675-102	$2.50
Black, cable mounted, set screw. 3/4" center, stackable	W-HHS-1675-103	2.50
Red, shorting type. 3/4" center, stackable	W-HHS-1416-102	2.50
Black, shorting type. 3/4" center, stackable	W-HHS-1416-103	2.50

Dual Banana Plug

Mates with Standard dual binding posts with 3/4" centers and can be stacked for multiple connections. Polarity is indicated by rib. Nickel or gold plated. Screw connection.

Description	Part #	Price
Red (Nickel plated)	S-H33-010	$1.95
Black (Nickel plated)	S-H33-011	1.95
Red (Gold plated)	S-H265R	1.95
Black (Gold plated)	S-H265B	2.50
Black and Red, heavy duty (Gold plated)	S-H269	2.95

Cliff Jacks

Highest Quality, made in England

Description	Part #	Price
[1]Mono input jack. 4 solder terminals, switched. Metal ferrule, vintage style. Used in British amps	S-H501	$2.75
[2]Mono input jack. 4 solder terminals, switched. Used in modern Marshall™ amps with black plastic nut	S-H502	2.25
[2]Same as above (S-H502) but with Gold terminals	S-H502G	3.25
[3]Mono input jack. 4 PC board terminals, switched. Used in modern Marshall™ amps, or as replacement part for Marshall™ JCM 900 cabinets. Used in Ampeg, Crate, Marshall™ & more	S-H503	2.25
[4]Stereo input jack. 6 PC board terminals, switched. Used in modern Marshall™ amps. Used in many PA & Recording consoles, Marshall™ bass heads, & "rack" units	S-H504	2.25
[5]Same as S-H504 but with 6 solder lugs	S-H505	2.45
[6]Hex nut for S-H502, S-H503, S-H504 and S-H505	S-H5NT	.45

Plastic Jacks

Available November 2002.

Description	Part #	Price
[1]Mono input jack. 4 solder terminals, switched. Metal ferrule, vintage style. Similar to S-H501	S-H601	$1.95
[2]Mono input jack. Four PC mount terminals. Metal ferrule. Switched	S-H601A	1.95
[3]Stereo input jack. Six solder terminals. Metal ferrule. Switched	S-H601B	1.95
[4]Stereo input jack. Six PC mount terminals. Metal ferrule. Switched	S-H601C	1.95

Fender 1/4" Jacks

Fender® PC mount jack. Mono 4 pin. circa 1988 to 1999	S-H506	$3.50
Fender® PC mount jack. Stereo 9 pin. circa 1988 to 1999	S-H507	4.50
Fender® R/A stereo jack 1999 to present	S-H508	2.25
Fender® R/A mono jack 1999 to present	S-H509	2.25
Fender® Hex nuts for Rean jacks. Package of 12	S-H510	2.25
Fender® PCB mono closed circuit	S-H512	5.10

Switchcraft Jacks

See Switchcraft pages 52-53 for other Switchcraft jacks.

Description	Part #	Price
1/4" Female. Open circuit. Replacement for Fender®	W-SC-11	$2.95
[2]Shorting type. 1/4" female	W-SC-12A	2.95
1/4" female. Stereo Double Open Circuit	W-SC-12B	3.10
1/4" female Same as W-SC-12A but has longer leads	W-SC-L12A	3.20
[3]RCA panel mount female jack. Good Fender® replacement	W-SC-3501FR	3.45
[1]Stereo end pin jack. Threaded, 15/32" dia, 1/2" mounting hole for 1/4" plug	W-SC-152B	9.95

1/4" Panel Mount Phone Jacks

[1]3 conductor, stereo. Double open circuit. Generic, like Switchcraft 12B	S-H33-099	$1.50
[2]2 conductor, shorting type. Generic, like Switchcraft 12A	S-H33-097	1.50

RCA Phono Jacks

Female chassis mount jacks. Gold connections provide optimum performance.

Description	Part #	Price
Nickel (While Supplies Last!) pkg./2	S-H30-528	$1.75
Gold, black band, front mount. Sold individually	S-H267B	3.95
Gold, red band, front mount. Sold individually	S-H267R	3.95
Gold, white band, front mount. Sold individually	S-H267W	3.95
Gold, black band, rear mount. Sold individually	S-H268B	3.95
Gold, red band, rear mount. Sold individually	S-H268R	3.95
Gold, white band, rear mount. Sold individually	S-H268W	3.95

Phono Jack, Boards

Double, 1 1/2" x 1" package of 2	S-H310	$0.25
Square quad, 1 1/2" x 1 1/2"	S-H311	.25
[1]In-Line quad, 3 1/8" x 1"	S-H314	.45
Shorted unit, 8 jacks, with copper grounding strip, 7 3/8" x 3/4"	S-H315	.35
[2]Single round. 1" diameter. Replacement for Fender® Tweeds	W-HHS-1203	2.50
Two RCA jacks with leads	W-10260	2.95
RCA jack. Positive and negative screws. 2" mounting	W-10150	.80

See page 49 for Banana Jacks

Switches

Lev-R® switch, for intercom talk/listen. Stack height .75", switching 1-K — W-SC-13033T — $7.95

Lev-R® switch, 2 position non-locking, mounts on .625" center, stack height 1" — W-SC-3006 — 7.95

2 position, non-locking, fits in places conventional switches will not fit, .875" behind panel depth, stack height 1.063" — W-SC-12006D — 7.95

LT® switch, 2 position, 2-A non-locking, rated 2A, 200W max AC, non-inductive load. 1/2" x 1/2" behind panel — W-SC-41208 — 14.95

LT® switch, 3 position, locking, positions 1 and 2 are 4-C, 3/4" x 3/4" behind panel dimensions — W-SC-41324L — 16.95

Illuminated 3 position switch, non-locking, single pole — W-SC-27307L — 3.95

Illuminated 3 position switch, non-locking, double pole — W-SC-27312L — 4.95

Premium quality long frame for jack panel mounted switching. 2 position turn button, locking circuit 2-C, max 2A 200W — W-SC-11206L — 3.95

RS DPDT break before make, 3A, 300W max — W-SC-2006L — 8.95

Min lever switch, 3 position, non-locking, 2 pole, break before make — W-SC-29306 — 4.95

Push lite switch, black/white, single lamp, 4PDT, 2A, 125V max — W-SC-PL112205 — 10.95

Push lite, momentary DPDT,2A, 125VAC max — W-SC-PL106205 — 12.95

Uni-switch, illuminated solder/screw lugs.

Red	W-SC-LUS001-R	2.95
Yellow	W-SC-LUS001-Y	2.95
White	W-SC-LUS001-W	2.95

Buttonswitch®, small momentary completely enclosed in metal housing. Front panel mount, black circuit 1-C — W-SC-913 — 1.75

As above but circuit 1-0 — W-SC-913D — 1.75

Buttonswitch®, small momentary switch, completely enclosed in metal housing, rear panel mount, 250 MA 30W max AC non-inductive load.

Red button	W-SC-923	2.95
Black button	W-SC-933	2.95

Momentary switch, DPDT — W-SC-4004 — 3.95

Littleswitch®, SPST, momentary with leaf spring .25A contacts for low power switching where contact resistance is not critical — W-SC-201 — 2.95

Hi-D switch, compact momentary, red solder lug terminals, SPST, .25A, 30W max, non-inductive load — W-SC-H101 — 1.95

Momentary cord switch, black pushbutton, solder terminals, metal housing, 250 mA 30W max, non-inductive load — W-SC-E913 — 4.95

General purpose slide switch, UL & CSA rated for .5A DC and 3A AC, 125V, non-inductive load

SPST locking, PC terminals	W-SC-46202LR-PC	.95
SPDT locking, solder lugs	W-SC-46203LR	.95

DPST normally open momentary, pushbutton, solder lugs — W-SC-46204MBR — .95

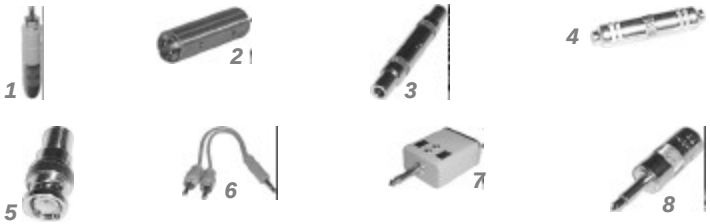
Miniature slide switch, tini-slide with lifting and wiping action. Minimum 6000 cycles rated life. Good for Q-G cord plug connectors for microphones with on/off switch — W-SC-56206L2 — .75

General purpose slide switch, large 2 position, locking, "double wipe" 3PDT, .5A DC, 3A AC, 125V, non-inductive load, UL & CSA rated — W-SC-50209L — .95

Adapters

[1]RCA male to 1/4" female mono	W-SC-336A	$2.95
[1]Same as above but not Switchcraft	W-GC-33-866	1.95
[1]RCA male to XLR female, needs assembly	W-SC-321	9.95
[1]RCA female to 1/4" male mono	W-SC-345A	3.75
[1]RCA female to 1/4" female mono	W-SC-336B	4.95
[1]RCA female to XLR female, needs assembly	W-SC-322	9.95
[2]XLR male to XLR male	W-SC-390	6.95
[2]XLR male to XLR female, needs assembly	W-SC-S3-FM	7.95
[2]XLR male to mini TA3F	W-SC-TA-04	6.95
[2]XLR female to 1/4" male stereo, needs assembly	W-SC-386A	7.95
[3] 1/4" female to 1/4" female mono	W-SC-362A	6.95
[4] 1/8" mini female to 1/8" mini female 1 7/8" length	W-SC-MJ-BL	2.25
[4] 1/8" mini female to 1/8" mini female 2 1/8" length	W-SC-356	2.25
[4] 1/8" mini female to 1/8" mini male	W-SC-396P	2.95
[4] 1/8" mini male to BNC female	W-SC-BV-MP	1.95
[5]BNC male to coaxial female	W-SC-FJ-BP	2.95
[6]2-RCA males (Y cable) to 1/8" mini male	W-SC-330T2	1.95
[6]2-RCA males (Y cable) to RCA male	W-SC-330F3	3.45
[7]2-female monos to 1/4" male	W-SC-340	9.95
[7]2-female monos to 1/4" male w/separate mixers	W-SC-310	24.95

[8]Micro-jax input to 2 conductor EIA standard tini-plug phone plug — W-SC-377 — 3.95



DIN Plugs & Receptacles

5 pin plug	W-SC-12BL5M	$3.95
5 pin plug with plastic shielded barrel	W-SC-12GM5M	2.95
[1]5 pin plug with locking ring	W-SC-12CL5M	4.95
8 pin plug with locking ring	W-SC-15CL8M	4.95
[2]3 contact receptacle, for locking ring	W-SC-57HA3F	2.95
4 contact receptacle	W-SC-60GA4F	2.95
4 contact receptacle, for locking ring	W-SC-60HA4F	2.95
5 contact receptacle	W-SC-61GB5F	2.95
5 contact receptacle, for locking ring	W-SC-57HA5F	2.95
As above with ground solder lugs	W-SC-61HA5F	2.95
As above with flanged terminals	W-SC-57HB5F	2.95
8 contact receptacle for locking ring	W-SC-62HB8F	3.50

We have many more Switchcraft items.
If you don't see what you need, check our website or give us a call.
Items on this and the next page are "While Supplies Last!"

Switchcraft®

1/4" Plugs

Right angle stereo plug, metal	W-SC-238	$2.95
Right angle stereo plug, red plastic back	W-SC-235	2.25
Right angle mono	W-SC-228	3.95
Right angle mono plug, red plastic back	W-SC-225	2.25
Right angle mono plug, black plastic back, solder terminal	W-SC-227	2.25
Right angle mono plug, red plastic back, solder terminal	W-SC-229	2.25
Large body mono plug with shielded handle. Screw terminal	W-SC-170	3.25
Large body mono plug with shielded handle. Screw terminal. Silent Plug	W-SC-181	3.50
Mono plug. Large, short body, shielded handle, screw terminal	W-SC-160	2.95
Stereo plug, trim body	W-SC-298	3.25
Mono plug, shielded handle, trim body	W-SC-288	2.95

Mono plug, jumbo, solder terminal.		
Black	W-SC-185	1.85
Maroon	W-SC-186	1.85

Mono plug, jumbo, screw terminal.		
Black	W-SC-40	1.95
Maroon	W-SC-245	1.95

Stereo plug, jumbo, solder terminal. Black	W-SC-60	1.85
Stereo plug. Black plastic	W-SC-267	1.75

Mono plug, MIL spec.		
Black plastic	W-SC-173	4.95
Red plastic	W-SC-445	4.95
Metal	W-SC-470	5.95

1/4" Jacks

Female, open circuit. Replacement for Fender®	W-SC-11	$2.95
as above but longer (.375") bushing	W-SC-L11	2.95
Shielded phone jack for hi Z circuits, with #11 inside the can	W-SC-CN11	4.95
Shorting type, female	W-SC-12A	2.95
Female. Stereo double open circuit	W-SC-12B	3.10
Female. Same as W-SC-12A but longer (.375") bushing	W-SC-L12A	3.20
LittleJax® two conductor transfer circuit	W-SC-13A	3.95
3 conductor tip shunt	W-SC-13B	2.95
2 conductor isolated make circuit	W-SC-13	2.95
Stereo end pin jack. Threaded, 15/32" dia, 1/2" mounting hole for 1/4" plug	W-SC-152B	9.95
3 conductor, shorting type	W-SC-2A	1.95
Single open circuit, right angle enclosed, pc mount	W-SC-RN111PC	1.75

3 conductor, metal bushing, enclosed	W-SC-112B	2.75
3 conductor, gold plated tip & ring. Insulated bushing, enclosed	W-SC-MN112B	2.95
2 conductor, .375" bushing, enclosed	W-SC-L-111	2.75
3 conductor shorting, insulated bushing, enclosed	W-SC-N114B	2.75
Long frame telephone jack, 3 conductor, straight terminals	W-SC-MT342B	4.95
As above but 2 straight, offset ground terminal	W-SC-XMT332B	4.95
Long frame telephone jack, double closed circuit	W-SC-CMT334B	5.95

1/4" In Line Extension Jacks

Jacks are to be connected to the end of a cable. 2 and 3 conductor jacks mate with standard 1/4" phone plugs, and have a sturdy cable clamp strain relief.

Description	Part #	Price
Nickel plated brass, shielded handle, screw terminals	W-SC-120	$5.95
As above but solder terminals	W-SC-128	3.95
3 conductor, stereo, solder lugs. Black handle	W-SC-838	3.95

Microphone Jacks & Plugs

Description	Part #	Price
Straight female XLR cord plug with momentary on/off SPDT switch	W-SC-T3FM	$11.95

Professional series 3 contact male cord plug. Gold plated pins	W-SC-QGP3-23	5.95
Female plug for standard gooseneck mount (gooseneck not included). External 5/8"-27 thread, microphone plugs directly into connector, 3 contacts	W-SC-P3F	5.95

Right angle XLR cord plug.		
Male	W-SC-R3M	7.95
Female	W-SC-R3F	7.95
Female XLR, panel mount, 3 screw, gold pin	W-SC-QGP3-26	6.95
Professional series receptacle, 3 contact, gold plated pins. Male nut mount receptacle	W-SC-QGP3-29	4.95

Microphone screw connectors, 5/8"-27 threads.		
Female	W-SC-2501F	2.95
Male	W-SC-2501M	2.95

RCA Jacks/Plugs

RCA panel mount female jack. Good Fender® replacement	W-SC-3501FR	$3.45
Male plug. Replacement for Fender® RCA	W-SC-3502A	2.75

Miscellaneous Jacks/Plugs

Miniature .141" plug, 2 conductor for use with Tini-jax®.

Description	Part #	Price
Screw terminals. Black	W-SC-740	$1.75
Screw terminals. Red	W-SC-745	1.75
Solder lug & cable clamp. Red plastic handle	W-SC-755	1.75
as above but brass nickel handle for shielding	W-SC-780	1.95
Jack for above. Tini-D-Jack®, miniature 2 conductor, mounts in 1/4" chassis hole, solder lugs shunted, enclosed	W-SC-142A	1.75
Mini power plug, 2 conductor battery charger plugs. Hollow center pin, solder lug terminals.		
.1" diameter hole, black tip	W-SC-760	1.45
.08" diameter hole, white tip	W-SC-S760	1.45
.177" enclosed jack for Tini-plugs®. 3 conductor Unijax® double closed circuit, metal bushing	W-SC-UJ4B	1.95

.097" submini micro plug, red metal handle	W-SC-855	1.75

TT-Jax® .173" telephone jack, bantam type

Steel frame, 2 conductor, solder lugs	W-SC-TT36C	4.95
Plug for above	W-SC-TT251	2.75
Die cast frame, 3 conductor, solder lugs	W-SC-TT34BDC	4.95
Little-Jax® commercial phone jack, 2 conductor, .210" diameter I.D.	W-SC-S11	1.95
Extension jack for above. In-line 3 conductor .210" I.D. sleeve. Black plastic handle cable clamp strain relief, screw lugs	W-SC-S830	3.95

1/4" x 1 1/4" Fuses

Protect your expensive investment or hobby with the right fuse. Fits fuse block and fuse holder below. Package of 5 fuses. New Lower Prices.

Fast-Blo	Part #	Price
1/4 amp	F-ZF005	$1.95
1/2 amp	F-ZF007	1.95
1 amp	F-ZF010	1.95
1 1/2 amps	F-ZF015	1.95
2 1/2 amps	F-ZF020	1.95
3 amps	F-ZF025	1.95
4 amps	F-ZF035	1.95
5 amps	F-ZF040	1.95
8 amps	F-ZF045	1.95
9 amps	F-ZF048	1.95
10 amps	F-ZF050	1.95

Slo-Blo	Part #	Price
1 amp	F-ZS010	$2.95
2 amps	F-ZS020	2.95
3 2/10 amps	F-ZS030	2.95
4 amps	F-ZS035	2.95
5 amps	F-ZS040	2.95
6 amps	F-ZS042	2.95
6 1/4 amps	F-ZS045	2.95
20 amps	F-ZS080	2.95
30 amps	F-ZS090	2.95

GMA Type Fuses
5mm x 20mm

2 amps	F-ZGMA-S2	$2.65
3 amps	F-ZGMA-S3	2.65
4amps	F-ZGMA-S4	2.65

Fuse Holders

Description	Part #	Price
[1]For 3AG fuses. 1/2" dia. chassis hole	S-H258	$1.75
[2]Same as above but with lead	S-H258L	2.95
[3]In-line fuse holder for 3AG fuses	S-H254	.85
[4]High Quality for 3AG fuses.Marshall™ replacement	S-H200	4.95
[5]High Quality Littel brand for 3AG fuses. Fender® replacement	S-H201	2.95
[6]Fuse Block	S-H259	1.95
[7]Fuse component holder. 1/4" dia. package of 12	S-H115	.60
[7]Fuse component holder. 7/16" dia. package of 12	S-H116	.60

Alligator Clips/Insulators While Supplies Last!

Will accept bare wire or standard banana plugs.

Plain, package of four	S-H302	$0.19
Insulation piercing.	W-HHS-347	.50
Insulated. Solder connection. Meets MIL spec L-P349A	W-HHS-301-103	.75

Clip patch cord. 18" of 18 AWG insulated wire with vinyl boots.

Red	W-HHS-159718102	4.95
Black	W-HHS-159718103	4.95

Vinyl Alligator Clip Insulators.

Red	W-HHS-331-102	$0.35
Black	W-HHS-331-103	.35
Green	W-HHS-331-104	.35

Stand Offs/Spacers

1/4" round, 6-23 threads, 1/2" length	W-HHS-8343	$0.15
1/4" round male, 4-40 x 1/4" deep, female end	W-HHS-8204	.15
Hexagonal .250" hex, .170" ID, 3/4" length	W-HHS-2308	.15
1" length	W-HHS-2309	.15
.375" hex, .170 ID, .375" length	W-HHS-2316	.15
4-40 thread .250" hex 1" length	W-HHS-2334	.15
6-32 thread .250" hex 1/2" length	W-HHS-2322	.15

Snap Button Hole Plugs

Metal plugs for punched or drilled holes. Firm grip spring action prongs in steel. Nickel plated.

1/4" hole size	W-HHS-650	$0.30
5/16" hole size	W-HHS-651	.30
3/8" hole size	W-HHS-652	.30
1/2" hole size	W-HHS-653	.35
5/8" hole size	W-HHS-654	.35
9/16" hole size	W-HHS-657	.35
1 1/8" hole size	W-HHS-3084	.75
1 1/4" hole size	W-HHS-658	.49
1 3/8" hole size	W-HHS-3088	.95

Terminals

[1] #8 open end spade. Package of 20	S-H373	$0.60
[2]Rivet or bolt mount. Package of 24	S-H374	.50
[3]Spring loaded. Package of 25	S-H375	.60

Locking Terminal Lugs

Sold as package of 10.

#4 Angled. 5/8" length	S-H118	$1.00
#6 5/8" length	W-HHS-1412-6	1.00
#6 5/8" length, angled	S-H112	.95
#6 47/64" length	W-HHS-1411-6	1.00
#6 13/16" length	W-HHS-1466	1.00
#6 13/16" length, angled	W-HHS-1414-6	1.00
#8 hole 23/32" length	W-HHS-1413-8	1.00
#8 hole 13/16" length, angled	W-HHS-1414-8	1.00
#8 hole 7/8" length	W-HHS-1410-8	1.00
#10 57/64" length	W-HHS-1410-10	1.00

Solder Lugs

Sold as package of 10.

#6 17/32" length	W-HHS-1485-6	$1.00
#8 dogbone, 5/8" OC	S-H127	1.00
#8 13/16" length	W-HHS-1486-8	1.00
#10 15/16" length. Hot tinned copper	W-HHS-1491	1.00
1/4"-3/4" length. Hot tinned brass, hook end	W-HHS-1496	1.00
3/8", 7/8" length. Hot tinned brass	W-HHS-1497	1.00

Block Spades

Sold as packages of 25.

#4-6 19/64" width x , 24/32" length	W-HHS-4838	$1.25
#8 flanged. 19/64" width x , 27/32" length	W-HHS-4848	1.25
#10 flanged. 19/64" width x , 27/32" length	W-HHS-4849	1.25

Terminal Rings

For 16-14 AWG wire, #4 stud. Package of 20	S-H382	$1.00
For 22-18 AWG wire, #8 solderless, insulated. Package of 25	W-HHS-4813	1.25

Dial Lamps / Bulbs

Long life general replacement lamps for dials, indicators, etc. Packages of 10 except where noted.

Type	Volts	Amps	Base	Bulb	Part #	Price
40	6.3	.15	screw	T-3¼	P-40	$2.95
41	2.5	.50	screw	T-3¼	P-41	2.95
42	3.2	.35	screw	T-3¼	P-42	3.50
43	2.5	.50	bayonet	T-3¼	P-43	3.50
44	6.3	.25	bayonet	T-3¼	P-44	2.95
45	2.5	.35	bayonet	T-3¼	P-45	3.50
46	6.3	.25	screw	T-3¼	P-46	2.95
47	6.3	.15	bayonet	T-3¼	P-47	2.95
48	2.0	.06	screw	T-3¼	P-48	3.50
49	2.0	.06	bayonet	G-3¼	P-49	3.50
50	7.5	.22	screw	G-3¼	P-50	3.50
51	7.5	.22	bayonet	G-3¼	P-51	3.50
53	14.4	.12	bayonet	G-3¼	P-53	3.50
55	7.0	.41	bayonet	G-3¼	P-55	3.50
57	14.0	.24	bayonet	G-3¼	P-57	3.50
81	6.5	1.02	bayonet	G-6	P-81	each 1.25
NE2	120	.0007	wire	T-2	P-NE2	each 1.95
NE16	120		bayonet	T-6	P-NE-16	each 2.50
NE45	105/125	.002	screw	T-4¼	P-NE45	each 3.25
NE51	90/110	.0003	bayonet	T-3¼	P-NE51	each 1.95

Morley Replacement Bulb

Replacement for Morley effects pedals — P-LTX387 — $2.25

Jewels & Lenses

Description	Part #	Price
Fluted dome - red While Supplies Last!	P-L111	$1.95
Fluted dome - green While Supplies Last!	P-L112	1.95
Jeweled dome - red	P-L115	2.25
Jeweled dome - green	P-L116	2.25
Jeweled dome - amber	P-L117	2.25
Jeweled dome - blue	P-L120	2.25
Jeweled dome - purple	P-L121	2.25
Jeweled dome - violet NEW!	P-L121V	2.25
Jeweled dome - clear	P-L122	2.25
Jeweled dome - white	P-L123	2.25

Lamp Sockets / Holders

Description	Part #	Price
[1]Pilot Lamp Holder. Replacement for Fender® (Does not include jewel)	P-L124	$2.25
[2]Lamp holder	P-L110	4.25
[3]Bayonet Lamp Socket. 75 watt, 125V. 6" leads.	P-L118	2.25
[4]Indicator light. Classic brushed antique finish for use with T-3¼ miniature bayonet base bulbs (sold separately). Flat, back frosted green lens. Mounts from rear in 9/16" hole. Comes with 3 knurled mounting rings. 75W, 125V rating. While Supplies Last!	P-L114	1.95
[5]Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L101	1.50
[6]Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L101L	1.75
[7]Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L103	.50
[8]Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L104	.75
[9]Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L105	.95

Fans

Description	Part #	Price
[1]Sanyo brushless DC fan. 2¼" dia x 1" thick, 12VDC, 70ma	S-FAN01	$1.75
[2]12VDC, 4.5" diameter	S-FAN02	3.95
ETRI high quality. 3.6" dia x 1" thick, 115VAC, 65ma [3]1700rpm, 21cfm. Wire form fan guard and detachable power cord	S-99XM	12.95

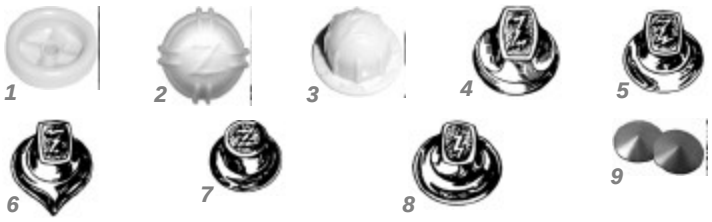
Color Burst Crystal

RCA type 3, 3579.545 kc. Excellent for ladder filters.

S-MCBX — $0.19

Reproduction Molded Plastic Knobs

Zenith	Part #	Price
1 3/4" diameter shaft. Ivory, tuning knob[1]	P-K189	$5.75
1" diameter, 1/8" shaft. Ivory[2]	P-K190	5.75
1" diameter, 1/4" split shaft rounded top. Ivory[3]	P-K192	5.75
1 3/8" diameter, 1/4" diameter shaft. Walnut finish[4]	P-K193	7.50
1 1/16" diameter, 1/4" diameter shaft. Walnut finish.[5]	P-K194	6.75
1 1/16" diameter, with pointer, 1 1/4" diameter shaft. Walnut finish[6]	P-K195	6.75
1 1/8" diameter, 1/4" diameter shaft. Walnut finish[7]	P-K196	7.10
1 3/8" diameter, 1/4" diameter shaft. Walnut finish[8]	P-K204	7.10
Transoceanic Brights. For H 500 & 600 series, 5/8" diameter. pkg of 2[9]	P-K985	5.95



Zenith Bandswitches

Used in Zenith radios in the late 30's and early 40's. 1938 model used lever with set screw in 3:00 position, 1939 model and 1940 models used lever with set screw in 12:00 position.

Set screw in 3:00 position.	P-K220	$13.50
Set screw in 12:00 position.	P-K221	13.50

Internal metal bandswitch link. 3:00 set screw. Internal part for large Zenith radios made in 1940-1942 that the bandswitch wheel attaches to. Originally a potmetal part. P-K223 11.95

Reproduction Molded Plastic Knobs

RCA

Description	Part #	Price
1 3/8" diameter, 1/4"shaft. Brown[1]	P-K197	$5.75

Atwater Kent

Description	Part #	Price
1 3/8" diameter. Brown[2]	P-K982	$5.95
1 5/8" diameter. Brown[3]	P-K983	6.75
3 1/8" diameter. Brown with white engraving[4]	P-K984	7.95

Wood Knobs

An exact reproduction of an early wood knob commonly found on many radios from 1928-1934. Knob is 1" diameter and 3/4" deep, with metal insert and set screw to fit on 1/4" diameter shaft.

Walnut	P-K903	$5.75

Similar to above except different style with 1 1/8" skirt at base of knob.

Walnut	P-K971	$5.75

Knob Springs

Assortments of knob springs for half moon shaft. All are "D" shaped and sold in bags of six.

3/8" high x 9/32" overall diameter	P-KS215	$0.96
3/8" high x 13/32" overall diameter	P-KS221	1.20

Reproduction Molded Plastic Knobs

Philco

Molded Plastic knobs with set screw to fit 1/4" shaft

Description	Part #	Price
Rosette Knob used on 1931-32 Philco Cathedral[1]		
1 1/4" diameter tuning knob, Brown	P-K175	$6.95
7/8" diameter, Brown	P-K176	6.95
11/16" diameter skirt, 7/16" diameter face.	P-K177	6.95
Hex-shaped knob. Used on 1933-34 Philcos[2]		
1" diameter tuning knob, Black	P-K178	6.95
13/16" diameter, Black	P-K179	6.95
Mid 30's Knobs. Push-on for flatted shaft. No set screw		
1 1/8" diameter knob with pointer, Brown[3]	P-K181	$5.75
1 1/8" diameter inner knob for concentric tuning[4]	P-K185	6.50
1 3/8" diameter outer knob for concentric tuning[5]	P-K186	6.50
1 1/16" diameter with pointer.[5] 1/16" long x 1/2" neck to extend into cabinet[6]	P-K209	6.50

Philco Pushbuttons

Reproductions of the wine-colored pushbuttons used for station presets on 40's vintage Philcos. Buttons measure 7/16" x 7/16" across front surface and come in two lengths. Back of buttons are slotted to fit onto 3/16" switch actuator.

3/4" long	P-K411	$2.95
1 1/4" long	P-K412	3.00

Reproduction TRF Tuning Knob

Direct reading channel dials for Atwater Kent radios. Replaces original knobs graduated 0-100, with direct frequency markings 55-150 for the broadcast band. 3 1/4" overall diameter, 1/4" shaft size with set screw. P-K210R $7.95

Miscellaneous NOS Knobs

[1]Ivory 7/8" x 7/16" dia. Pushbutton (Zenith)	P-K923	$0.75
[2]Brown. 1 1/2" long pointer knob. 1/4" shaft	P-K454	1.25
[3]Black. 9/16" long, 3/8" diameter pushbutton.	P-K810	.75

Generic Replacement Knobs

Late 1930's style radio knob, injection molded plastic. 1" diameter, fits 1/4" shaft, with set screw.

Brown	P-K981	$5.95

Brushed face knob with indicator line, fits 1/4" shaft, 1 1/4" diameter, double set screw.

Ivory	P-K304	2.95

Radio Knob Felt

Premium quality wool felt washers. Medium brown in color, these washers will resist wear and hold their shape over time. All have center holes punched. Most have 1/4" interior diameter. Sold in packages of 5 per size.

1/4" overall diameter	P-H181	$1.75
3/4" overall diameter	P-H200	1.80
7/8" overall diameter	P-H201	1.95
1" overall diameter	P-H202	2.10
1 1/4" overall diameter	P-H203	2.25

Ampeg Amp Knobs

Sold individually

Description	Part #	Price
[1]Stove knob for large pots. D shaft	P-K322	$2.25
[1]Stove knob for smaller pots.	P-K323	2.75
[2]Classic knob. D shaft	P-K324	2.75

Fender® Amp Knobs

Description	Part #	Price
[1]Skirted, 1-10, package of 6	P-K314	$19.95
[2]White Vintage, package of 6	P-K315	17.95
[3]Brown Vintage, package of 6	P-K316	17.95
[4]Chicken head, black, package of 6	P-K318	10.95
[5]Skirted Roc Pro, black, package of 6	P-K319	8.95
[6]Red Pointer, package of 6	P-K320	8.95
[7]Black Pointer, package of 6	P-K321	8.95

Great replacements for Marshall amps and Scott receivers

Sold individually.

Description	Part #	Price
Black with gold cap. 1/4" shaft with set screw	P-K340	$2.25
Black with silver cap. 1/4" shaft with set screw	P-K342	2.25
Black with silver cap. 1/4" shaft, push on	P-K343	2.25

Fender® Guitar Knobs

Description	Part #	Price
[1]Original for Strat, 1 volume, 2 tone, white	P-K330	$5.25
[2]Original for Strat, 1 volume, 2 tone, black	P-K331	5.25
[3]Original for Tele, Chrome Dome, package of 2	P-K332	14.95
[4]Original Tele Switch, Switch Tip, package of 2	P-K334	4.25

Gibson Guitar Knobs

Description	Part #	Price
[1]Original Speed type, black, package of 4	P-K500	$11.95
[2]Original Speed type, gold, package of 4	P-K501	11.95
[3]Original Top Hat type, black, package of 4	P-K502	11.95
[4]Original Top Hat type, gold, package of 4	P-K503	11.95
[4]Original Top Hat type, vintage amber, package of 4	P-K504	11.95
[5]Original Speed type, black with silver metal insert. Package of 4: 2 volume, 2 tone	P-K505	11.95
[5]Original Speed type, black w/gold metal insert. Package of 4: 2 volume, 2 tone	P-K506	11.95
[6]Original Speed type, gold w/gold metal insert. Package of 4: 2 volume, 2 tone	P-K507	11.95

Chicken Head with Set Screw and Brass Insert

High quality, identical to P-K318. Sold individually.

Description	Part #	Price
Black	P-K300	$1.25
Red	P-K300R	1.25
White	P-K300W	1.25
Blue	P-K300BU	1.25
Yellow	P-K300Y	1.25

Knurled Aluminum

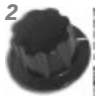
Sold individually.

Description	Part #	Price
[1]Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia	P-K310	$2.95
[1]Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1" dia	P-K312	4.50
[2]Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia	P-K311	3.25
[2]Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1" dia	P-K313	4.50

Other Knobs

Sold individually.

Description	Part #	Price
[1]Pointer, black. (similar to Fender® knob # P-K318)	P-K307	$0.99
[2]NOS knob. Fits 1/4" knurled shaft, 1 1/8" dia, black, good for amps, kits etc	P-K986	2.25



Power Supply Kit for Early Battery Radio

Input: 120V, 60 Hz.
"A" Output: Adjustable and regulated 1.5 to 7.5 volts, 1.5 Amps.
"B" Output: 22, 45, 67, 90, and 135 volts regulated up to 50 mA.
"C" Output: Adjustable, 0 to 22 volts. Regulated.

Kit includes transformer, rectifiers, capacitors, resistors, transistors, regulator I.C. and all hardware and white pine board. Easy to follow instructions for assembly. You need only a screwdriver and soldering iron. 3.0 lbs.

K-101A $54.50

Beginners Crystal Radio Kit

Crystal radio kit is ideal for the beginning radio hobbyist. Comes complete with tuning coil that you get to wind, slider, germanium diode and earphone. 7 oz.

K-401 $10.50

Crystal Detector

A working reproduction of the "Junior Detector Stand" sold by the William B. Duck Co. in 1921. Base is finished in dark mahogany, metal fittings are polished brass, gold lacquered. Crystal included. Base diameter is 3", overall height is 3". 5 oz. K-411 $49.50

Crystal Detector

Beautiful wood based detector comes complete with cat's whisker, ball and rod assembly, holder for galena crystal and old style binding posts. Base is 1¾" x 3¼." Galena crystal not included. 2 oz.

K-412 $18.50

World War II Foxhole Radio Kit

Build an AM receiver using only a razor blade, pencil lead, coil and earphone! Contains all necessary parts, base and instruction book. 6 oz.

K-414 $13.50

Crystal Radio Kit

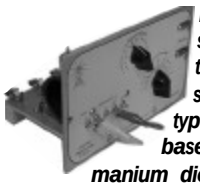
A simple, yet highly sensitive crystal radio kit made out of common items found in most homes. Comes with pre-wound coil and galena crystal. Great one night project for the beginner or the kids. Marvel at listening to a radio made from "nothing". Requires crystal earphone (P-A480 order separately). 6 oz

K-417 $24.50

A.M. Hi-Fi Tuner Kit with Cabinet

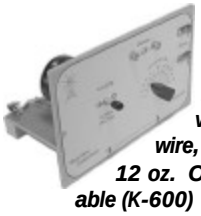
Nothing more than a Crystal Radio, this A.M. Hi-Fi Tuner is a nice addition for the serious audiophile. There is no power supply, etc. to introduce "foreign" noises into the circuit. This "three stage/dual diode" assembly reaches down and separates the stations like no other crystal radio circuit produced. This unit boasts a wide versatility in antenna and ground, so it will work most efficiently for your A.M. environment. The resulting audio output can be fed to a Hi-Fi amplifier or a high quality 2000 ohm double headphone. Easy to assemble, with a raw/unassembled pine cabinet. The unit is 11" x 5½" x 6½" deep. 3.5 lbs. K-420 $76.50

Two Tube Regenerative Radio Kit with RF Amp



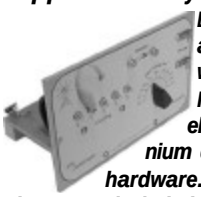
Broadcast bands to 8 MHz. Operates on a 1.5V "C" size and 45V (S-Z415) battery and two 1T4 tubes (order these items separately). RF amplifier stage boosts input signal and prevents radiation to feed-back into antenna, typical of regenerative receivers. Kit includes pre-drilled base and front panels, dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600) K-425 $39.50

Short Wave Crystal Radio Kit



Tune in worldwide signals from 3 to 14 MHz on a crystal radio! Unit works more efficiently with Antenna Tuner Kit (K-435) and AM Rejecter Trap Kit (K-435). Kit includes pre-drilled base and front panels, dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". 12 oz. Optional: Unassembled/Unfinished pine cabinet available (K-600) K-432 $32.50

Tapped Coil Crystal Radio



Build a crystal radio with great sensitivity and selectivity across the broadcast band! Unit works more efficiently with Antenna Tuner Kit (K-435) and AM Rejecter Trap Kit (K-434). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Antenna/Ground wire and earphone not included. 1 lb Optional: Unassembled/Unfinished pine cabinet available (K-600) K-433 $32.50

Antenna Trap Kit

Very useful for crystal, TRF and regenerative radio experimenting. This trap, when placed in series with your antenna can help to null powerful stations that "swamp" the weaker ones. Unit works more efficiently with Antenna Tuner Kit (K-435) Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 4¾" x 3¾". Antenna/Ground wire not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)

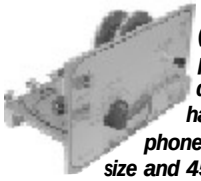
K-434 $23.50

Antenna Tuner Kit

Tuner covers 375 KHz through 30 MHz! Can be switched from "parallel" to "series" resonance for more complete coverage on all bands. Coil is tapped for inductance changes. Most efficiently used with AM Rejecter Trap (K-434). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¼". Antenna/Ground wire and headphones not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)

K-435 $32.50

One Tube Regenerative Receiver Kit

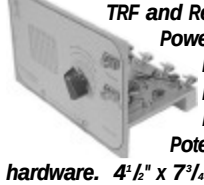


With ("spider web" coils) Broadcast band through 8MHz (approx.) Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Antenna/Ground wire, headphones and 1T4 tube not included. Operates on a 1.5V "C" size and 45V (S-Z415) battery not included. 1 lb

Optional: Unassembled/Unfinished pine cabinet available (K-600)

K-436 $32.50

Two Tube AF Amplifier Kit



Greatly boosts the audio output of small receivers. Used with Crystal, TRF and Regenerative Receivers and high impedance earphones. Power requirements: 45-90 V/DC, Plate and 1½ V/DC Filament power. May use: A/B Battery Supply Kit (K-438 recommended), or K101A Kit. Kit includes pre-drilled base and front panels, professional dial panel, Volume Potentiometer, Tube Sockets, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Headphones and two 1S4 tubes not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)

K-437 $24.50

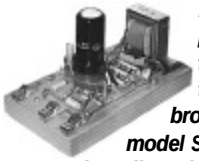
A/B Battery Supply Kit

Provides A/B battery power for small, tube-type regenerative radios and amplifiers using tubes with 1½ V/DC filaments. This kit uses ten 9V transistor batteries and two "C" cells. Kit includes pre-drilled base and front panels, professional dial panel, battery holders, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". 1.0 lb.

Optional: Unassembled/Unfinished pine cabinet available (K-600)

K-438 $23.50

Wireless Transmitter Kit



Now your antique radio can play some of the same programs it did when it was new! With your cassette tape player, phonograph or high output microphone, this one-tube transmitter becomes a miniature AM broadcasting station, patterned after the 1939 Zenith model S-7000 Wireless Record Player. Assemble on a 4 x 6½" breadboard, all parts and instructions included. 2.0 lbs.

K-488 $35.50

Tube Audio Amplifier Kits

All tube design rivals sound of high end audio amplifiers costing 10 times as much! These kits are designed by George H. Fathauer. Enjoy the thrill of high end audio without going broke and enjoy the satisfaction in building it yourself. Kits come complete will all parts and easy to follow instructions.

Monoblock Amplifier Kit

Input Impedance: 100K ohms
Output Impedance: 8 ohms
Power Output: 8 watts
Frequency Response: 20 to 20,000 Hz
Minimum Input for Full Output: 0.3V
Total Harmonic Distortion @ 1 W: <1%
Uses 11MS8 tubes included in the kit. Also includes board for mounting PC board and transformers. 5 lbs. 1 oz.

K-501 $89.50

Stereo Integrated Amplifier Kit

Input Impedance: 100K ohms
Output Impedance: 8 ohms
Power Output: 8 watts per channel
Frequency Response: 20 to 20,000 Hz
Minimum Input for Full Output: 0.3V
Total Harmonic Distortion @ 1 W: <1%
Uses 11BM8 tubes included in the kit. Also includes board for mounting PC board and transformers. 6 lbs. 10 oz.

K-502 $139.50

The Rattler!

Build your own distortion effects pedal! Easy to build, point to point wiring. Tone similar to the Vintage 60's and70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included.

K-900 $49.50

High Impedance Double Headset

High quality 2000 ohm double headphone. Has black light weight plastic ear caps, with metal headband, plastic cord and 2 phone tips. Works great with crystal set or our one tube radio kit. 6 oz.

While Supplies Last! P-A466 $19.95

Unfinished/Unassembled Pine Cabinet

New and very versatile.This handsome cabinet is made of pine and can be assembled and finished very easily. Adds a remarkable, professional look to your projects. Comes with all materials and hardware, including quick and easy instructions. 2 sizes available.

For panels 4¾" x 7¾" x ⅛" thick, approx. 5¾" deep. 1.5 lbs.
Use with kits: K-425, 432, 433, 435, 436, 437 and 438.

K-600 $22.50

For panels 3¾" x 4¾" x ⅛" thick, approx. 5¾" deep. 1.5 lbs.
Use with kit: K-434 K-601 $19.50

Crystal Earphone

High impedance crystal earphone is very sensitive and works great with crystal radios. Has 3 ft. cord and miniature (3.5mm) plug.

P-A480 $3.25

NOS Ceramic Coil Form

1⅝" tall with adjustable slug.

P-C210 $3.95

Plug-in Coil Forms

Wind your own coils with these brown plastic plug-in coil forms. 2⅝" x 1¼" dia. Standard 5-pin base.

P-C211 $5.50

Crystal Cover

Glass crystal cover for Philmore and other crystal sets. 1" O.D. by 1⅛" high.

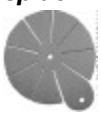
P-D125 $11.95

Cats Whiskers

Similar to the Philmore cat's whiskers and others. Made of phosphor bronze. Pkg/3.

P-H415 $2.85

Spider Web Coil Form



Same as used in K-406. 3¾" dia. Made of press board. Has leg for mounting to radio base. Use with magnet wire on p. 62.

P-H500 $2.95

"Mascot Tuning Coil"

A working reproduction of the loose coupler featured in the William B. Duck Catalog of 1921. Beautifully finished mahogany ends and brass rods. Originally advertised as designed to greatly increase the range of any of the receiving sets for experimental use. With 60 foot aerial it will respond to wave lengths up to about 800 meters. 3½" square by 7⅛" long. Assembled. 1 lb. P-M166 $39.95

Galena Crystals

Mounted Galena Crystals, like those used in early crystal detectors. Ideal for K-412 and other detectors.

P-Q111 $2.50

Germanium 1N34A Diode

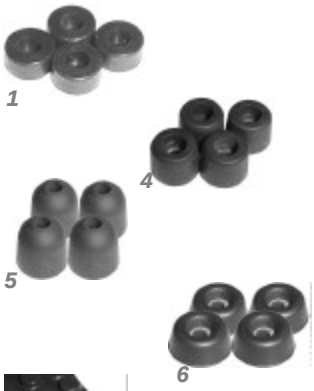
Point contact germanium diode, ideal for crystal radio detectors. While Supplies Last!.

P-Q972 $2.50

Rubber Chassis Mount Washers

Gum rubber chassis mounting washers as used on 30's vintage Zenith and Philco radios. Allows proper dial centering in cabinet opening. P-H182 and P-H185 have adhesive backing for laminating to other washers to increase the thickness. 1/4" inner diameter. Sold individually.

1 1/4" diameter x 1/8" thick	P-H182	$0.95
1 1/4" diameter x 1/4" thick	P-H183	.95
7/8" diameter x 1/8" thick	P-H185	.95
7/8" diameter x 1/4" thick	P-H186	.95
1 1/4" diameter x 3/8" thick	P-H187	1.25



Rubber Bumpers and Feet

Screw On Type:

[1]Package of 4. 1/2" diameter x 1/4" high	P-H1308	$1.50
[1]Package of 4. 5/16" diameter x 3/8" thick	P-H253	2.00
Package of 4. 3/4" diameter x 3/8" high, washer, screw and nut	W-HHS-2198	3.00
Package of 4. 5/8" diameter x 5/8" high, washer, screw and nut	W-HHS-2467	1.00

Recessed Bumpers:

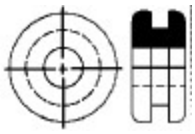
[4]Package of 4. 5/8" diameter x 1/2" high	P-H2082	2.40
[4]Package of 4. 5/8" diameter x 1/2" high, Steel insert	P-H2082S	2.90
[5]Package of 4. 1" diameter x 1" high	P-H2097	6.50
[5]Package of 4. 1" diameter x 1" high, Steel insert	P-H2097S	6.96
[6]Package of 4. 5/8" diameter x 1/4" high.	W-HHS-2193	1.50
[6]Package of 4. 5/16" diameter x 3/8" high, Steel insert	W-HHS-2195	3.00
[6]Package of 4. Large tapered rubber foot with zinc washer. 1 1/4" diameter	P-H9107	3.00

Self Adhesive Backed Bump-Ons:

[2]Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order	P-H16-150	$3.60

Button Bumpers:

[3]Dimensions: 7/16" diameter x 5/16" high. Package of 4	P-H1309	$1.20



Rubber Grommets

Protect electrical wires and cables from sharp edges in holes drilled through chassis boxes. Package of 5.

Chassis Hole Diameter	Grommet Hole Diameter	Groove Width	Part #	Price
1/4"	5/32"	1/16"	P-G014	$0.85
1/4"	5/32"	5/64"	P-G014	1.95
3/8"	1/4"	1/16"	P-G038	1.25
3/16"	1/8"	1/16"	W-HHS-2185	1.30
5/16"	3/16"	1/16"	P-G516	1.25
5/16"	3/16"	7/64"	P-G516A	1.50
7/16"	1/4"	1/16"	P-G716	1.25
7/16"	5/16"	1/16"	P-G717	1.95
1/2"	3/8"	1/16"	P-G005	1.95
1/2"	5/16"	1/8"	P-G005A	1.95
1/2"	7/16"	1/16"	W-HHS-2177	1.00
3/4"	9/16"	1/16"	P-G034	1.95
3/4"	1/2"	1/16"	W-HHS-2186	1.25
1"	11/16"	1/16"	P-G100	1.95

Vibrapod

Enhance your listening sessions! These affordable vibration isolators improve bass definition and depth, dynamics, imaging, detail resolution ambiance, clarity and sound stage. Four different models support from 2 to 28 pounds each. All are 2 1/2" diameter x 9/16" high. Temperature range from 50°F to 100°F.

Model 1: has a weight range of 2-3 lbs each, recommended weight is 2 1/2 lbs. Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers up to 32 lbs.	S-VIBRA1	$5.50
Model 2: has a weight range of 4-8 lbs each, recommended weight is 6 lbs. Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers from 24-72 lbs.	S-VIBRA2	5.50
Model 3: has a weight range of 8-12 lbs each, recommended weight is 10 lbs. Suggested uses: Heavy amps or speakers, units over 72 lbs.	S-VIBRA3	5.50
Model 4: has a weight range of 14-18 lbs each, recommended weight is 16 lbs.	S-VIBRA4	5.50
Model 5: has a weight range of 22-28 lbs each, recommended weight is 25 lbs. Suggested uses: Extremely heavy amps or speakers, units over 200 lbs.	S-VIBRA5	5.50

Motor Mounting Grommets

Rubber grommets for mounting phonograph motors. Measure 1/2" diameter, 5/16" high and 1/4" inner diameter. Package of 9.

P-R407 $4.25

Pan Head Phillips Machine Screws

Zinc, package of five.

Description	Part #	Price
4-40 x 1/4"	S-HS440-14	$0.30
4-40 x 3/8"	S-HS440-38	.30
4-40 x 1/2"	S-HS440-12	.25
4-40 x 3/4" Slotted screw head, not Phillips!	S-HS440-75	.40
6-32 x 1/4"	S-HS632-14	.35
6-32 x 3/8"	S-HS632-38	.40
6-32 x 1/2"	S-HS632-12	.40
8-32 x 3/8"	S-HS832-38	.35
8-32 x 1/2"	S-HS832-12	.50
8-32 x 3/4"	S-HS832-34	.50
10-32 x 1/2"	S-HS1032-12	.65
10-32 x 3/4"	S-HS1032-34	.75
10-32 x 1"	S-HS1032-1	.75

Pan Head Self Tapping Screws

Zinc, package of five.

Description	Part #	Price
#6 x 3/8"	S-HST6-38	$0.40
#8 x 3/8"	S-HST8-38	.50
#8 x 1/2"	S-HST8-12	.50

Sheet Metal Screws

Hex head, cadmium plated screws, ideally suited to all electronic devices. At least 15 pieces per package.

Description	Part #	Price
#6 x 3/8"	S-H351	$0.19
#8 x 3/8"	S-H352	.30
#8 x 1/2"	S-H353	.19

#10 Machine Screws

Ideal for transformer mounting. Package of four. P-H245 $0.60

Flat Washers

Zinc, type A narrow, package of five.

Description	Part #	Price
#4	S-HW4	$0.20
#6	S-HW6	.30
#8	S-HW8	.20
#10	S-HW10	.30

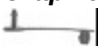
Fiber Washer Assortment

S-H402 $0.65

"C" Washer Assortment

Contains 25 of the most popular sizes. S-H401 $0.95

Snap-Lock Wire Tie Clips



Package of 20. S-H377 $0.25

Cable Ties

3 1/2" long, package of 10. S-H376 $0.19

Tone Arm Cartridge Screw Assortment

25 pieces. While Supplies Last! S-P001 $0.30

Conventional Phonograph Needles

For all set screw and thumb screw cartridges. Straight steel needles, good for 12 plays each. Package of 25. S-P119 $1.95

Phono Pick-Up Wire

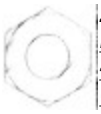
Fine extra flexible four conductor, color coded cable, 5' long. Non Shielded S-WL3-644 $5.95

Internal Tooth Lock Washers

Zinc, package of five.

Description	Part #	Price
#4	S-HLW4	$0.40
#6	S-HLW6	.40
#8	S-HLW8	.40
#10	S-HLW10	.45

Finished Hex Nuts



Zinc, package of five.

Description	Part #	Price
4-40	S-HHN440	$0.20
6-32	S-HHN632	.30
8-32	S-HHN832	.30
10-32	S-HHN1032	.30

T-Nut

Zinc, package of five.

Description	Part #	Price
6-32	S-HTN632	$1.00
8-32	S-HTN832	1.00
10-32	S-HTN1032	.85

Decorative Head Screws

Like used for speaker mounting on 1930's vintage radio cabinets. All are #8-32, 1 1/2" long. Sold in Packages of four.

Description	Part #	Price
[1] Nickel Plated	P-H240	$2.50
[2] Brass Plated	P-H241	2.50
[2] Bronze Plated	P-H242	2.50
[2] Unplated	P-H243	2.50
[2] Nickel Plated	P-H244	2.50

Antenna Clip

1/2" diameter. S-H303 $0.15

Small Wire Nuts

Great for hobbyists. Package of 12. S-H408 $0.19

Hedlock Fasteners

These super sturdy fasteners are great for speaker covers or helping prevent earthquake damage. Four sets of two clips. (Package of 8) S-SJ-3201 $0.60

Fahnestock Clip

Spring clip 3/4" long for up to 14 gauge wire. #6 mounting hole.

package of 100	S-H11-4034	$10.95
package of 6	S-H11-4043-6	.75

We have a very limited phonograph part inventory. If you don't see what you need, try West-Tech Services in Tennessee at 931-424-1212 or for Needles & Cartridges contact Vintage Electronics at 601.264.4755.

Phono Cartridge Connector Assortment

25 pieces. S-P002 $0.45

Spindle

Universal 45. While Supplies Last!. S-P100 $4.25

Replacement Needles

While Supplies Last!. Crystal sapphire. 33-45-78 speed, used in Arista/Astatic. S-P999 $0.45

Fender® Logos

Replacement for Fender® Amps, mounting screws included.

Description	Part #	Price
[1]Flat Brown	S-M911	$14.95
[1]Flat Black	S-M916	14.95
[2]Tweed Brown	S-M913	10.95
[2]Tweed Black	S-M917	11.95
[3]Blackface with Tail	S-M912	14.95
[4]"70's Small Logo (CBS)	S-M915	11.95
[5]Tweed Bassman®	S-M914	11.95

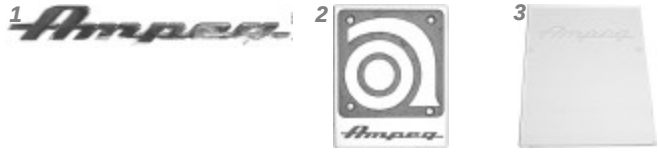
Flip Top Latch/Suitcase Hook

Original Ampeg	P-H300	$2.95

Ampeg Logos

Original Ampeg Amp logos

Description	Part #	Price
[1]Script Logo	S-M919	$8.95
[2]Metal Logo	S-M920	9.95
[3]Plexi-logo	S-M918	15.95



Amp Handles for Fender

High quality handles for vintage Fender® amps. Will work on other amplifiers as well.

Description	Center to Center	Part #	Price
[1]Original Fender® brown molded dogbone. Hardware included		P-H269BR	$14.95
[2]Original Fender® black molded dogbone. Hardware included		P-H269BK	14.95
[3]Black strap with silver caps. Replacement for Fender®	8¾"	P-H261	5.95
[4]Black strap with black caps. Replacement for Fender®	8¾"	P-H261B	5.95
[5]Brown strap with caps. Replacement for Fender®	8¾"	P-H260	5.95
[6]Brown leather-raised. Replacement for Fender®. Hardware included	6½"	P-H262	7.95
[7]Brown leather-flat. Replacement for Fender®. Hardware included	6½"	P-H263	7.95

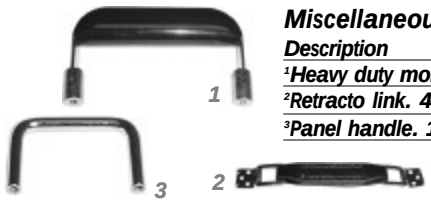
Original Ampeg Handles

Replacement handles for vintage Ampeg amps. Will work on other amplifiers as well.

Description	Part #	Price
[1]Large vintage leather handle. Blue	P-H280	$16.95
[2]Large vintage leather handle. Black	P-H281	16.95
[3]Strap Handle. Black	P-H282	10.50
[4]Chrome hardware for P-H282 (above). Sold individually	P-H282A	2.75

Miscellaneous Handles

Description	Part #	Price
[1]Heavy duty molded grip, black, 4¼" long. 75 lbs maximum. Mounting hardware included.	W-HHS-2085	$19.50
[2]Retracto link. 4½" long, 5¾" centers	W-HHS-2093	9.99
[3]Panel handle. 1¼" wide, 5/32" diameter	W-HHS-1632	3.75



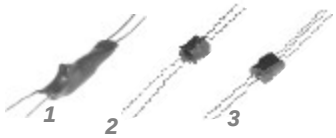
Jewels

Replacement for Fender® Amps

Description	Part #	Price
Red	P-L115	$2.25
Green	P-L116	2.25
Amber	P-L117	2.25
Blue	P-L120	2.25
Purple	P-L121	2.25
Violet New!	P-L121V	2.25
Clear	P-L122	2.25
White	P-L123	2.25
Pilot Lamp Holder	P-L124	2.25

Optocouplers

[1]Vibrato LDR for Fender® Amps	R-VOP1020	$14.95
[2]VacTec. For channel switching	R-VTL5C1	7.95
[3]VacTec dual element	R-VTL5C32	8.95



Guitar Amp Castors

Heavy duty swivel castor for use on Fender® and other amps. 2" diameter wheel supports 44 lbs. Comes with or without socket.

Description	Part #	Price
Castor & Socket	P-HW01S	$5.50
Save 10% on the set of 4 Castors and Sockets		19.80
Castor only	P-HW02	3.95
Socket only	P-HW03	1.95

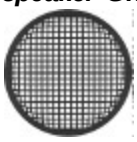
Fender Piggyback Items

[1]Thumb Screws. Package of 2	S-H251	$12.95
[2]Clip Bars. Package of 2	S-H252	24.95
[3]Bushings. Package of 2	S-H253	17.95

Foot Switch Boxes

[1]Marshall™ one button with 1/4" plug	P-H470	$16.95
[2]Marshall™ two button with 1/4" plugs	P-H471	21.95
[3]Fender® one button, vintage style with RCA plug	P-H270	35.99
[4]Fender® two button, vintage style with RCA plugs	P-H271	42.99

Speaker Grills



Metal grills have flat black finish with rubber edge trim. Mounting brackets are sold separately.

Description	Part #	Price
8"	P-HSG008	$3.95
10"	P-HSG010	4.95
12"	P-HSG012	5.95
15"	P-HSG015	6.95
Mounting Bracket- sold individually	P-HSGA1	.50

Light Bulb

Replacement for Fender®. Package of 10.

#47 light bulb	P-47	$2.95

Fender® Tilt Back Legs

Available in three sizes. Contains two in each pack.

Description	Part #	Price
14" small	P-H265S	$24.95
16" medium	P-H265M	28.95
19" large	P-H265L	35.95

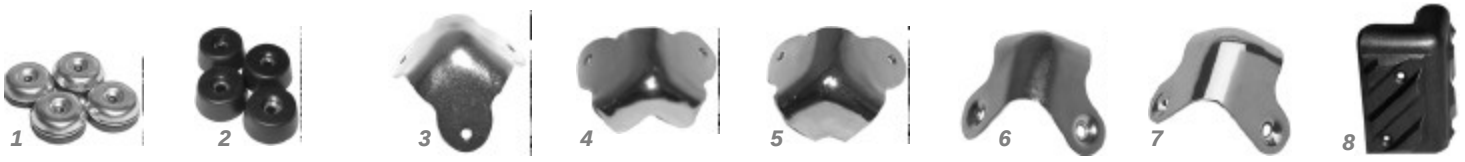
Fender® Chassis Straps

Available in three sizes. Contains two in each pack. Hardware included.

Description	Part #	Price
3" small	P-H264S	$7.95
4" medium	P-H264M	7.95
5" large	P-H264L	8.50

Cabinet Corners/Feet

Description	Part #	Price
[1]Original Fender® Sphinx Glides. Package of 4	P-H250	$3.95
[2]Large tapered rubber foot with zinc washer. 1 3/4" dia. Screw not included. Package of 4	P-H9107	3.00
[3]Industry standard 3-leg back side corner cover for vinyl or carpet covered cabinets. 18 gauge steel	P-H1080N	1.75
[4]2-leg corner. Use where total material thickness is 1/2" or more. Works on carpet or vinyl. 18 gauge steel	P-H1082N	1.75
[5]Corner wraps around inside edge of cabinet. Works on 3/4" of wood + material thickness. 18 gauge steel	P-H1084N	1.75
[6]Corner wraps around inside edge of cabinet. Works on 3/4" of wood + material thickness. Countersunk mount holes.20 gauge steel	P-H1087N	1.75
[7]Chrome with lip, as used on Fender®. Sold individually	P-HHR2040	1.75
[8]Plastic, small stacking chevron corner. Ideal for carpet covered cabinets. Approx. 2 2/5" high, sides are 1" wide	P-H266	1.25
[8]Heavy duty plastic, large stacking chevron corner. Ideal for carpet covered cabinets. Approx. 3 1/4" high, sides are 2" wide	P-H267	1.75
Stainless steel pan head Phillips self-tapping screws. #6 x 3/4" length. Good for use with #'s 3, 4 and 5. Package of 12	S-H101	1.50
Stainless steel flat head Phillips self-tapping screws. #6 x 3/4" length. Good for use with #'s 6 and 7. Package of 8	S-H102	1.50



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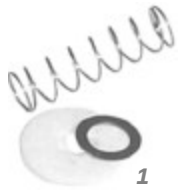
Motor Assembly for Leslie 122/147

[1]Upper Slow	P-OH-101	$49.95
[2]Lower Slow	P-OH-102	49.95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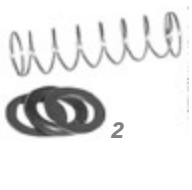
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Motor Rebuild Kits for Leslie 122/147

[1]Upper Slow	P-OH-201	$3.95
[2]Lower Slow	P-OH-202	3.95

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Leslie Belts

[1]Upper	P-OH-301	$15.40
[2]Lower	P-OH-302	17.00

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Leslie Relays

[1]110 VDC for the 122	P-OH-401	$34.45
[2]115 VAC for the 147	P-OH-102	34.45

Miscellaneous Leslie Parts

Description	Part #	Price
[1] O Ring. Large pulley rim drive	P-OH-501	$3.25
[2] 17" rotor cover for 122 and 147	P-OH-502	28.00
[3] Upper belt tension spring	P-OH-503	12.00
[4] Upper tension idler bearing	P-OH-504	15.00
[5] Lower rotor bearing	P-OH-505	13.75
[6] Plug. 6 pin. Male	P-OH-506	10.95
[7] Socket. 6 pin. Female	P-OH-507	11.95
[8] Plug cover kit for connectors	P-OH-508	9.95
[9] Grommet kit of all rubber parts	P-OH-509	42.00
[10] Back screw set. 13 Phillips screws with washers	P-OH-510	9.95

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Jensen Replacement Speakers for Leslie Cabinets

Available in 8 and 16 ohms. Please specify when ordering.

Description	Part #	Price
P15N- AlNiCo magnet. 50 Watts	P-A-P15N	$188.95
C15N- Ceramic magnet. 50 watts	P-A-C15N	88.95
C15K- Ceramic magnet. 100 watts	P-A-C15K	98.95
Extra gasket for proper spacing of speaker	P-A-GASKET-15	6.00

accutronics

World famous Accutronics brand reverb tanks in 3 of the most popular styles with 14 models to choose from. Get the warm, true sound that only spring reverberation can provide. Used in Fender®, Marshall™, Ampeg, Peavey, Music Man, SLM and Other Amps

4

The industry standard for years, the Type 4 is still manufactured using the original Hammond design. Four counter wound and coupled springs deliver superior mechanical performance and the classic sound that helped make the Fender Twin Reverb amps famous. 16 3/4" long x 4 3/8" wide.

4AB3C1B	8 ohm input, 2,250 ohm output, long delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R4AB3C1B	$20.95
4BB2A1B	150 ohm input, 2,250 ohm output, medium delay, grounded input, grounded output connectors, horizontal, open side down mounting.	P-R4BB2A1B	20.95
4BB3C1B	150 ohm input, 2,250 ohm output, long delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R4BB3C1B	20.95
4EB2C1B	600 ohm input, 2,250 ohm output, medium delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R4EB2C1B	20.95
4FB3A1B	1,475 ohm input, 2,250 ohm output, long delay, grounded input, grounded output connectors, horizontal, open side down mounting.	P-R4FB3A1B	20.95
4FB3D1B	1,475 ohm input, 2,250 ohm output, long delay, insulated input, insulated output connectors, horizontal, open side down mounting.	P-R4FB3D1B	20.95

8

Designed for applications in which overall sound quality is important and a compact package is required. Small in size, this three string reverb approaches the rich textural quality of larger reverb units. 9 1/4" long x 3 3/8" wide.

8AB2A1B	10 ohm input, 2,575 ohm output, medium delay, grounded input, grounded output connectors, horizontal, open side down mounting.	P-R8AB2A1B	$19.95
8BB2A1B	190 ohm input, 2,575 ohm output, medium delay, grounded input, grounded output connectors, horizontal, open side down mounting.	P-R8BB2A1B	19.95
8DB2C1D	310 ohm input, 2,575 ohm output, medium delay, insulated input, grounded output connectors, vertical connector down mounting.	P-R8DB2C1D	19.95
8EB2C1B	800 ohm input, 2,575 ohm output, medium delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R8EB2C1B	19.95

9

Six springs, counter wound, coupled and placed in parallel, combine to create the fullest, richest reverb effect throughout the full range of musical sound. Ideally suited for keyboard, sound reinforcement and pedal steel applications. 16 3/4" long x 4 3/8" wide.

9AB2A1B	10 ohm input, 2,575 ohm output, medium delay, grounded input, grounded output connectors, horizontal, open side down mounting.	P-R9AB2A1B	$22.95
9AB2C1B	10 ohm input, 2,575 ohm output, medium delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R9AB2C1B	22.95
9AB3C1B	10 ohm input, 2,575 ohm output, long delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R9AB3C1B	22.95
9FB2A1C	1,928 ohm input, 2,575 ohm output, medium delay, grounded input, grounded output connectors, vertical connector up mounting.	P-R9FB2A1C	22.95
9EB2C1B	800 ohm input, 2,575 ohm output, medium delay, insulated input, grounded output connectors, horizontal, open side down mounting.	P-R9EB2C1B	22.95

Belton Reverb Tanks

Used in Hughes&Kettner, Marshall™, Ampeg, Crate, Fender®, Mesa Boogie, Guytron, Rocktron, DOD, Summit Audio, and Smokey, to list a few!

BL3AB3C1B	Equivalent to the 9AB3C1B	P-RBL3AB3C1B	$16.95
BL2AB3C1B	Equivalent to the 4AB3C1B	P-RBL2AB3C1B	15.95

Reverb Tank Bags

Handmade Single-ply black Tolex reverb tank bags. Replacement for Fender® and other amps

Fits 17" tanks	P-RBAG-17	$8.95
Insert bag for greater isolation. Liner for 17" tanks to make a 2-ply bag	P-RBAG-17LNR	4.95
Fits 9" tanks	P-RBAG-9	7.95

Right Angle RCA Cables

For reverb tanks and other electronic devices.

3 foot cable	S-H273	$1.95
6 foot cable	S-H276	2.25

Gibson Strings

Brite Wires NPS Wound	Part #	Price
.008-.038	S-S700SUL	$4.35
.009-.042	S-S700UL	4.35
.009-.046	S-S700ULMC	4.35
.010-.046	S-S700L	4.35
.011-.050	S-S700ML	4.35
Vintage Re-Issue. Pure Nickel		
.009-.042	S-SVR9	5.25
.010-.046	S-SVR10	5.25
.011-.050	S-SVR11	5.25
Les Paul. Pure Nickel		
.008-.038	S-SLP8	5.85
.009-.042	S-SLP9	5.85
.010-.046	S-SLP10	5.85

Fender Strings

Original 150's: If you're trying to capture the original vintage tone of pure nickel wound strings, string up a set of Original 150's! They are pure Fender tone through and through. Ball End.	Part #	Price
.008-.038	S-S150SL	$3.15
.009-.040	S-S150XL	3.15
.009-.042	S-S150L	3.15
.010-.038	S-S150	3.15
.010-.046	S-S150R	3.15
.011-.049	S-S150M	3.15

Original 250's: The "high-octane" nickel plated steel string for your electric guitar. With a pure steel wrap, the magnets in your pickups use the whole string, not just the core, and transform the energy into high output bursts of sound. The nickel plating enhances feel while reducing "string squeak" and fret wear without compromising tone. Original equipment on all U.S. made Fender electric guitars. Ball End.	Part #	Price
.008-.038	S-S250SL	$3.15
.009-.040	S-S250XL	3.15
.009-.042	S-S250L	3.15
.010-.046	S-S250R	3.15
.011-.049	S-S250M	3.15

Gibson Guitar Picks

Sold by the dozen

Description	Part #	Price
Original, Jazz style, Heavy	S-P50H	$2.75
Original, Jazz style, Medium	S-P50M	2.65
Original, Jazz style, Thin	S-P50T	1.95
Original, Standard style, Heavy	S-P74H	3.25
Original, Standard style, Medium	S-P74M	2.25
Original, Standard style, Thin	S-P74T	1.95

Fender Guitar Picks

Sold by the Dozen

Description	Part #	Price
Original, Standard, White, Thin	S-P351WT	$2.95
Original, Standard, White, Medium	S-P351WM	2.95
Original, Standard, White, Heavy	S-P351WH	2.95
Original, Standard, Black, Thin	S-P351BT	$2.95
Original, Standard, Black, Medium	S-P351BM	2.95
Original, Standard, Black, Heavy	S-P351BH	2.95

Fender Tuner

Original, AX-12 Auto, Chromatic Tuner	S-AX-12	$36.95

EXCELLINES Cable With Straight Phone Plugs

ProCo cable is the world renown industry standard. The Excellines cable are the musician's choice when it comes to guitar cable made with G&H ¼" BigFoot straight phone plug to ¼" BigFoot straight phone plug.

Length	Part #	Price
1 foot	P-HEG1	$5.45
2 feet	P-HEG2	5.75
3 feet	P-HEG3	5.95
5 feet	P-HEG5	6.30
10 feet	P-HEG10	7.55
15 feet	P-HEG15	8.80
18.5 feet	P-HEG186	9.60
25 feet	P-HEG25	11.35
30 feet	P-HEG30	12.60

EXCELLINES Cable With one Straight Phone Plug and one Right Angle Phone Plug

ProCo cable is the world renown industry standard. The Excellines cable are the musician's choice when it comes to guitar cable made with G&H ¼" BigFoot straight phone plug to ¼" BigFoot right angle phone plug.

Length	Part #	Price
10 feet	P-HEG10L	$9.95
18.5 feet	P-HEG186L	11.95

EXCELLINES 20 AWG Instrument Cable by the Foot

Make your own cable! Excellines 20 AWG 26 strand guitar cable. Shielded. Sold by the foot. See pgs 50, 52 and 53 for compatible plugs. P-HEG-FT $0.48/ft

EXCELLINES 16 AWG Speaker Cables ¼" phone plug to ¼" phone plug

Excellines 16 AWG two conductor portable speaker wire with G&H ¼" phone plug to ¼" phone plug.

Length	Part #	Price
3 feet	P-HSG16-3	$7.40
6 feet	P-HSG16-6	7.70
10 feet	P-HSG16-10	8.90
25 feet	P-HSG16-25	13.50

EXCELLINES 16 AWG Speaker Cable by the Foot

Make your own cable! Excellines 16 AWG two conductor. Non-shielded. Sold by the foot. See pgs 50, 52 and 53 for compatible plugs. P-HSG-FT $0.48/ft

Fender® Guitar Cables

Vintage Cables provide a quality tone and vintage look. Each cable is constructed of gold tipped plugs, oxygen-free copper wire. They are wrapped with either tweed, black & silver, wheat or oxblood woven exteriors.

Description	Part #	Price
10 feet Tweed	P-H272	$14.95
18 feet Tweed	P-H273	16.95
10 feet Black/Silver	P-H274	14.95
18 feet Black/Silver	P-H275	16.95
10 feet Brown/Wheat	P-H276	14.95
18 feet Brown/Wheat	P-H277	16.95
10 feet Brown/Oxblood	P-H278	14.95
18 feet Brown/Oxblood	P-H279	16.95

Right Angle RCA Cables

For reverb tanks and other electronic devices.

3 foot cable	S-H273	$1.95
6 foot cable	S-H276	2.25

RCA Dual Cables

6' dual cables for line in/out for VCR's, tuners, pre-amps, etc. Red and black straight plugs. S-H270 $0.95

NOS Switchcraft Cables

While Supplies Last!

Description	Part #	Price
[1]Single RCA cable. Male to male, 39", 3¼ feet	W-SC-25AF25	$1.75
Single RCA cable. Male to male, 48", 4 feet	W-SC-25AH25	1.95
Male to male, ¼" patch cable	W-SC-05ACO5	1.95
Male to male, miniature TT molded patch cord. 1 foot	W-SC-TT102	5.95
[2]Mini male ⅛" to two alligator clips	W-SC-40DK86	2.95

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Rat 2

Researched and designed to produce a sound that is radically different from any "distortion" you've ever heard before - a sound as mellow as a vintage "twin", or as bone-crushingly powerful as a battery of those famous English stacks - instantly, at any volume. Smooth, continuously variable controls for distortion amount, filter cutoff and volume level let you preset just the right degree of overdrive, tune in on the presence and balance the output for that perfect extra boost. Distortion, sustain, fuzz, overdrive - from the sweet wail of the blues to the grinding raunch of the heaviest metal - STOMP ON A RAT!

4" x 3 ½" x 3" 1.6 lbs **M-RAT2** **$59.95**

Vintage Rat

For years, guitarists have sought that "magic" sound, that elusively perfect blend of distortion, sustain and cutting power, usually found only at a volume too loud for club and studio work. The Rat is designed to produce a sound that is radically different from any "fuzztone" you've ever heard - a sound that sings and wails the blues, or spits and screeches the hardest rock 'n roll. The Rat's smooth harmonic distortion and effortless sustain put the extra punch in rhythm work and make solos cut through with authority and power. Also, the Rat won't change the tone or power of your guitar when it's turned off; its true bypass switch disconnects it completely from the instrument when it is not in use, eliminating the loading effects common among other devices. Distortion, sustain, fuzz, or overdrive: the sound remains unmistakably yours - not fake or gimmicky.

4" x 3½" x 3" 1.4 lbs **M-VRAT** **$64.95**

Turbo Rat

Feel the crunch and power of the distortion pedal designed to take you to new and unexplored heights. The Pro Co TurboRAT enables you to break away from the pack and drive beyond the realm of traditional distortion devices. The maximum output of 2.8 V (P-P) is more than double that of the "Turbo's" predecessors. Special care has been taken to preserve the hard-clipping harmonic distortion of the "great RAT tone" so that there is no sacrifice of sound in achieving its tremendous output. Heavy duty steel enclosure , LED indicator light , glow-in-the dark graphics. Dare to go beyond the limits of your imagination. Kick on your TurboRAT and DRIVE! 4" x 3½" x 3" 1.8 lbs **M-TRAT** **$69.95**

Deuce Tone Rat

The R2DU revisited! A modern day version of the original, the Deuce Tone Rat is equipped with two diode select switches to produce a variable sonic pallet utilizing tones from the Vintage, Turbo, and two never before heard Rat sounds - the Clean and Dirty Rat. The two Rats can be used simultaneously or independently to turn your single channel amp into a multi-channeled monster. Rugged steel chassis and mil-spec epoxy-glass pc board insure long life and durability. 4" x 7" x 3" 3 lbs

M-DTRAT **$169.95**

Rat Battery Eliminator

No more searching for 9-volt batteries or electrocuting your tongue to find a good one. Works with all Rats.

2" x 1 ½" x 1 ½". 0.4 lbs **M-RPS1** **$14.95**

Fresh Stock Energizer Batteries

Advanced formula Alkaline Batteries. Unsurpassed performance in high tech devices. It keeps going, and going, and going...

Two pack of 9 Volt batteries **S-Z29V** **$5.45**

The Rattler™ Effects Pedal Kit

Build your own distortion effects pedal!

Tone similar to the Vintage 60's and 70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included.

K-900 **$49.95**

Guyatone OD-X Overdrive

New!

For decades overdrive pedals have been used to emulate the sounds of hard-working tube amps at usable levels - but what better way to get tube-tone than from a tube? The OD-X features one 12AX7WA powered by twelve volts direct to plate for warm, saturated tones while remaining transparent enough to retain your rigs true sound. While many manufacturers run their tube effect units at high voltages, the engineers at Guyatone have found that running tube circuits at lower voltages helps accentuate even-order harmonics for a sweeter, smoother clipping effect. This configuration allows for a very transparent, dynamically sensitive effect that responds exceptionally well to playing nuances while maintaining clarity and punch.

5" x 3½" x 2" 1.6 lbs ***M-ODX $159.00***

Maxon OD808 Overdrive

The Original Overdrive! The OD808 is often imitated but never matched! Identical to the 1970's circuit and featuring the JRC4558 IC chip, it offers warm, smooth, transparent overdrive that'll make your rig scream! The OD808's dynamically responsive circuitry reacts precisely to individual playing styles, letting the true voice of any instrument or artist shine through. Don't settle for copies when you can have the original! 4¼" x 2¼" x 2" 0.8 lbs

M-OD808 $139.95

Maxon CP101 Compressor

Provides clean, smooth compression with low noise. Unlike other compressors, the CP101 doesn't alter an instrument's attack characteristics, providing a more natural response. The CP101 can be used to increase an instrument's sustain or to limit signal peaks for a smooth, even output. The CP101 works perfectly with bass guitar, electric guitar or semi-acoustic guitar. 4¼" x 2¼" x 2" 0.8 lbs ***M-CP101 $135.95***

Guyatone OD-2 Overdrive

Let's face it, some of us are beyond redemption. For the sinner in us all, the OD-2 will add a little gravel to the trip down the highway to Hell. Based on a popular vintage circuit, the OD-2 offers up smooth, warm overdrive in the classic Tubescreamer tradition. Level and drive controls adjust the degree of overdrive from subtle clipping to a fully saturated snarl. Devilishly delightful! 3⅜" x 2⅜" x 2" 0.6 lbs

M-OD2 $69.95

Guyatone VT-3 Vintage Tremolo

As we enter a new millennium, it is wise to look to the past for answers. The VT-3 does just that, offering all the tight, choppy tones that defined the classic tremolo sounds of bygone years. Intensity and speed controls offer everything from painfully slow pulses to light-speed, shimmering stabs - without the hassle of lugging around a vintage amp. Essential!

3¾" x 2¾" x 2" 0.6 lbs ***M-VT3 $69.95***

Guyatone WR-2 Wah Rocker

The secret weapon of countless pros, the WR-2 is finally available to the masses! An envelope controlled filter of surpassing hipness, the Wah Rocker's variable Threshold and Decay controls can produce everything from synth-like filter sweeps to the raucous squawk of a half-cocked wah pedal. Pound for pound, it's the funkiest filter that money can buy!

Used by TM Stevens. 3¾" x 2¾" x 2" 0.6 lbs ***M-WR2 $66.95***

Dunlop Echoplex Tape Cartridge

P-ECH-1 $22.25

Dunlop Rocker Pedal Bag

P-PB-101 $8.95

Dunlop GCB-95 Bottom Plate with Battery Door

P-ECB-152 $10.95

Dunlop Crybaby PC Board

Loaded with all necessary components P-ECB-25 $18.95

Potentiometers

Description	Part #	Price
[1]Hot Potz Crybaby Potentiometer	P-ECB-24	$25.95
[2]Hot Potz 470k Pot	P-ECB-24A	20.25
[3]Hot Potz II Crybaby Pot	P-ECB-24B	20.25
[4]Wah pot from Fulltone	R-VWAH	16.95

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Footswitches

Description	Part #	Price
[1]3PDT footswitch. Authentic Fulltone manufacture!	P-H499	$12.95
[2]3PDT footswitch. Triple pole double throw. For pure bypass	P-H501	9.95
[3]Carling SPST footswitch. Used in Fender®, etc. reverb/tremolo/channel switching pedals	P-H493	6.25
[4]Carling DPDT footswitch, used in switching and effects units	P-H497	9.95
[5]DPDT footswitch, same switch as P-H497 but made in Taiwan	P-H498	4.95
[6]Dunlop GCB-95 Switch	P-ECB-69	8.95

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Chicken Head with Set Screw and Brass Insert

High quality, sold individually.

Description	Part #	Price
Black	P-K300	$1.25
Red	P-K300R	1.25
White	P-K300W	1.25
Blue	P-K300BU	1.25
Yellow	P-K300Y	1.25

Fasel Inductor

The Fasel inductor is back! These near-mythical inductors are the key to the singing tonal sweep every wah player lusts after but can't capture with a new pedal. The ultimate upgrade to your current wah, these magic bullets are available exclusively from Dunlop, the new worldwide agent for Fasel of Italy. Choose the precision-wound Toroidal for the cleanest sound possible or, for die-hard vintage vibe, install the authentic cup core version. Either way your wah will finally give up the lush harmonic sparkle you've always heard in your head but could never coax from your rig.

Description	Part #	Price
Fasel cup core model. Yellow	P-ECB-FI-01	$17.95
Fasel toroidal model. Red	P-ECB-FI-02	17.95
Standard inductor., 500 ohm	P-ECB-156	10.95

Diecast Aluminum Enclosure

Same as Hammond 1590BB but generic manufacture from Taiwan. See page 33 for Hammond enclosures.

Part	Size	Price
P-H1590BBCE	4.7" x 3.7" x 1.18"D	$8.75

Morley Effects Pedal Parts

Replacement Light Bulb	P-LTX387	$2.25
Photocell	R-VPC01	2.25

Knobs, Jacks and More...

Description	Part #	Price
[1]Stereo Jack	P-ECB-18	$3.50
[2]Rubber Feet with Screws. Package of four.	P-ECB-151	2.25
[3]Knob	P-ECB-130	1.95
[4]Knob Cover	P-ECB-131	1.95
[5]Gear for Wah	P-ECB-126	1.25
[6]Rack for Wah	P-ECB-127	1.25
[7]Offset Grommets. 2 large, 1 small. For Wah	P-ECB-124	1.25
[8]Self Adhesive Backed Bump-Ons. Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order	P-H16-150	3.60

9 Volt Clips

Package of 3.

S-H155 $0.45

Adapters

Description	Part #	Price
[1]AC Adapter Plug for Dunlop pedals. 9 volt. US	P-ECB-002	$9.50
[2]AC Adapter Barrel for Dunlop pedals. 9 volt. US	P-ECB-003	9.50
[3]ProCo Rat battery eliminator. Works on all Rats.	M-RPS1	14.95

Fresh Stock Energizer Batteries

Advanced formula Alkaline Batteries. Unsurpassed performance in high tech devices. It keeps going, and going, and going...

Two pack of 9 Volt batteries	S-Z29V	$5.45

Stratocaster Lace-Sensors

Low noise and high output for incredible response and sustain. Each color represents a different sound: Gold is the classic Vintage Strat sound with glassy bell like tones. Blue is warm and loud like an old 50's humbucker. Each comes with a white cover.

Description	Part #	Price
Gold	P-PUF56	$39.95
Blue	P-PUF57	58.95

Stratocaster

Description	Part #	Price
Texas Special Strat Set of 3 - Bridge, Middle, Neck		
Overwound, calibrated, vintage style Stratocaster pickups with plenty of midrange chirp, crystal highs and tight bass. AlNiCo 5 magnets and enamel coated magnet wire create the increased output that demands respect!	P-PUF50	$129.95
Vintage Noiseless Set of 3 - Bridge, Middle, Neck		
Special beveled edge AlNiCo 5 magnets and enamel-coated magnet wire produce the brilliant clarity, definition and harmonic attributes of a vintage Strat in a "noiseless" package. Each Vintage "Noiseless" Strat pickup comes with 3 pots, a capacitor and resistor to enhance your "Noiseless" experience.	P-PUF51	142.50
'57/'62 Strat Single Coil DC Resistance: 5.6K Inductance: 3.0 Henries	P-PUF52	37.95

Telecaster

Description	Part #	Price
Texas Tele Bridge/Neck DC Resistance: 10.5K Inductance: 3.95 Henries	P-PUF53	$112.95
These overwound Tele pickups are constructed with AlNiCo 5 magnets and enamel coated magnet wire. The bridge pickup features height staggered magnets and a copper plated steel bottom plate for increased output, presence and midrange, while the nickel-silver cover on the neck pickup produces a clear warm tone that only a true Custom Shop Tele pickup can do.		
Original Tele Neck: DC Resistance: 7.7K Inductance: 2.45 Henries	P-PUF54	39.95
Original Tele Bridge DC Resistance: 7.2K Inductance: 3.27 Henries	P-PUF55	39.95

Bass Guitars

Description	Part #	Price
Fender Precision Bass Pickup	P-PUF60	$64.95
Fender Jazz Bass Pickup, Neck	P-PUF61	44.95
Fender Jazz Bass Pickup, Bridge	P-PUF62	44.95

Stratocaster Pickguards

Description	Part #	Price
For American Stratocasters. Fits most American and Mexican Strats. 11-hole, 3-ply. Black	P-G10B	$19.95
For American Stratocasters. Fits most American and Mexican Strats. 11-hole, 3-ply. White	P-G10W	19.95
For Vintage Strats, 11-hole, 3-ply. Black	P-G12B	19.95
For Vintage Strats, 11-hole, 3-ply. White	P-G12W	19.95

Telecaster Pickguards

For most American Telecasters.

Description	Part #	Price
8-hole, 3-ply. Black	P-G14B	$19.95
8-hole, 3-ply. White	P-G14W	19.95

Pickguard Screws

Description	Part #	Price
Original Fender. Package of 24	P-PGA1	$3.50

'57 Classic Series Pickups

Gibson Guitars was the true pioneer of electric guitar pickups. They invented the first humbucking guitar pickups and their "Patent-Applied For " pickups are still considered the most sought-after pickups in the world. Their quality and attention to detail makes Gibson the true measure of your guitar sound.

A neck or bridge position vintage sounding "Patent Applied For" humbucker. Great variety of tonal possibilities with emphasis on high and low end.

Description	Part #	Price
57 Classic, Humbucker, Gold cover	P-PUG1	$97.50
57 Classic, Humbucker, Nickel cover	P-PUG2	94.50

A neck or bridge position vintage humbucker with more output than the '57 Classic. Great clean sound that can produce crunchy rhythms and high gain leads that are enhanced by the extra distortion that this pickup can generate.

57 Classic Plus, Humbucker, Gold cover	P-PUG3	98.95
57 Classic Plus, Humbucker, Nickel cover	P-PUG4	98.95

Original Gibson Burstbuckers

For neck or bridge position.

Humbucker. Slightly underwound with medium "vintage" output	P-PUG17	$121.95
Humbucker. Wound in the range of the '57 Classic with slightly hotter "vintage" output	P-PUG18	121.95
Humbucker. Hotter output, works well with P-PUG17 in neck position	P-PUG19	121.95

490 Series Pickups

A neck position "modern" vintage humbucker. The tonal characteristics provide a combination of rich, full lows and increased treble clarity.

490R Modern Classic, Humbucker, Chrome cover neck	P-PUG5	$77.50
490R Modern Classic, Humbucker, Double black neck	P-PUG6	70.95
490R Modern Classic, Humbucker, Gold cover neck	P-PUG7	80.95
490R Modern Classic, Humbucker, Nickel cover neck	P-PUG8	77.50

A bridge position "modern" vintage humbucker. The tonal characteristics provide a wide range of possibilities, from great clean rhythms to fat and nasty leads.

490T Modern Classic, Humbucker, Chrome cover bridge	P-PUG9	$77.50
490T Modern Classic, Humbucker, Double black bridge	P-PUG10	70.95
490T Modern Classic, Humbucker, Gold cover bridge	P-PUG11	78.95
490T Modern Classic, Humbucker, Nickel cover bridge	P-PUG12	77.50

498T Series

Original Gibson "Hot AlNiCo"

498T Chrome cover bridge	P-PUG20	$77.50
498T Gold cover bridge	P-PUG21	79.95
498T Nickel cover bridge	P-PUG22	77.50

500T Series Pickups

500T Super Ceramic, Humbucker, Bridge or neck. Double Black	P-PUG23	$70.95
500T Super Ceramic, Humbucker, Bridge or neck. Zebra	P-PUG24	70.95

P-90 Series Pickups

A single coil soap bar style pickup, and a true Gibson innovation that lives on! The P-90 has a raspy, fat tone with an emphasized midrange punch. It is a rock & roll pickup that has a very unique personality among other pickups. Bridge or neck position.

P-90, Single Coil, Black soapbar cover	P-PUG13	$67.50
P-90, Single Coil, Black dogear cover	P-PUG14	67.50
P-90 Single Coil, Cream soapbar cover	P-PUG25	67.50
P-90 Single Coil, Cream dogear cover	P-PUG26	67.50

Pickguard and Pickguard Brackets

Original Gibson. For Les Paul series guitars

Description	Part #	Price
Studio black	P-PG50B	$19.95
Custom black 5-ply	P-PG52B	21.95
Standard cream	P-PG54C	19.95
Clear	P-PG56CL	19.95

Bracket, Gold	P-PGB01	$9.95
Bracket, Chrome	P-PGB02	8.95
Bracket, Nickel	P-PGB03	8.95

Fender Tuner Machine Heads

Description	Part #	Price
[1]Fender® vintage style for Strats and Teles. Set of 6	P-GTMH01	$32.95
[2]Fender® 1970's "F" style. Set of 6	P-GTMH02	39.95
[3]Fender® American Series. Chrome. Set of 6	P-GTMH03	39.95
Fender® Vintage tuner mounting screws. Package of 12	P-GTTS	2.50

Gibson Tuner Machine Heads

Description	Part #	Price
[1]Gibson Vintage nickel with pearloid buttons. Set of 6	P-GTMH20	59.95
[1]Gibson Vintage gold with pearloid buttons. Set of 6	P-GTMH22	62.95
[2]Gibson Modern nickel with metal buttons. Set of 6	P-GTMH21	34.95
[2]Gibson Modern gold with metal buttons. Set of 6	P-GTMH23	43.95
[2]Gibson Black Grover. Set of 6	P-GTMH24	43.95

Fret Wire & Nuts

Description	Part #	Price
Fender® Standard guitar. Pre cut, 24 pieces	P-GTFW01	$9.95
Fender® Vintage guitar. Pre cut, 24 pieces	P-GTFW02	9.95
Gibson. Pre-cut 2½" length. 26 pieces	P-GTFW21	11.95
Plastic nut for Gibson. 1 5/8" pre cut	P-GTNN01	3.75

Fender Tremolo Arms

Description	Part #	Price
Original. For American Stratocaster	P-GTARM01	$9.95
Original. For Vintage Stratocaster	P-GTARM02	11.95

Gibson Jack Plates

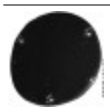
For Gibson Guitars

Description	Part #	Price
Black plastic	P-H170	$4.95
Gold	P-H171	9.95
Cream Plastic	P-H172	4.95
Nickel	P-H173	9.50

Gibson Switchplate Cover

Original Gibson

Description	Part #	Price
Black	P-GTSP01	$5.95
Brown	P-GTSP02	5.95



Guitar Jack

Special long thread jack for guitars. Switchcraft stereo end pin jack, threaded 15/32" dia, 1/2" mounting hole for 1/4" plug — W-SC-152B — $9.95

Gibson Strap Buttons

Original Gibson

Description	Part #	Price
Brass. Package of 2	P-GTSB01	$3.25
Aluminum. Package of 2	P-GTSB02	3.25

Gibson Switchwasher

Original Gibson

Description	Part #	Price
Black with gold imprint	P-GTWA01	$3.95
Black with white imprint	P-GTWA02	3.95
Cream with gold imprint	P-GTWA03	3.95

Gibson Truss Rod Cover

Original Gibson

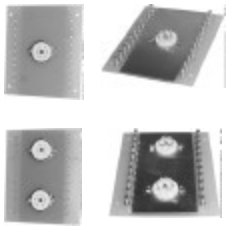
Description	Part #	Price
Black, blank	P-GTTR01	$8.95

Gibson Touchup Pens

The nitrocellulose lacquer helps protect exposed wood. The factory approved pigment helps to match the original finish.

Description	Part #	Price
Antique Natural	S-F400	$4.95
Clear	S-F401	4.95
Ebony	S-F402	4.95
Ferrari Red	S-F403	4.95
Wine Red	S-F404	4.95

Point to Point Terminal Boards



Rigid high temp (285° continuous) epoxy board, FR4 0.125" thick with 2/0 copper cladding, 0.500" standoffs, Solid brass electrosolder plated terminals, gold plated ceramic tube sockets, mounting hardware and template included.

Description	Part #	Price
Single 9 pin miniature socket. 3" x 3"	P-PTP0108	$11.95
Dual 9 pin miniature sockets. 3" x 5 1/4"	P-PTP0209	19.95
Single octal socket. 3" x 3"	P-PTP0109	11.95
Dual octal sockets. 3" x 5 1/4"	P-PTP0208	20.95
For Dynaco Mark III and other similar amplifiers, single ceramic 9 pin min. socket. 3 5/8" x 4 1/4"	P-PTP-MKIII-1	10.95
For Dynaco Mark III and other similar amplifiers, dual ceramic 9 pin min. socket. 3 5/8" x 4 1/4"	P-PTP-MKIII-2	17.95

Terminal Strips

Standard size terminal strips, 1/16" thick bakelite, tin plated steel solder lugs and brackets on 3/8" centers. Sold in bags of 5.

Solder Lug Style	Part #	Price
1 lug 0 ground	P-0100H	$1.75
2 lug 0 ground	W-HHS-863*	1.50
2 lug 1 ground	P-0201H	1.75
3 lug 0 ground vertical mount	P-0300V	3.25
3 lug 0 ground	P-0300H	1.95
3 lug 1 ground	P-0301H	1.95
4 lug 0 ground	W-HHS-869*	2.00
4 lug 1 ground	P-0401H	2.25
5 lug 0 ground	P-0500H	2.75
5 lug 1 ground	P-0501H	2.75
5 lug 2 ground	P-0502H	2.75
6 lug 0 ground	P-0600H	3.15
6 lug 1 ground	P-0601H	3.15
6 lug 2 ground	P-0602H	3.15
7 lug 1 ground	P-0701H	2.75
7 lug 2 ground	P-0702H	2.75
8 lug 2 ground	P-0802H	3.75
9 lug 1 ground Limited Quantity	P-0901H	4.75

* While Supplies Last!

Terminal Strips

Epoxy Board Style. Sold individually	Part #	Price
12 lug 0 ground[1]	P-1200H	$4.50
6 lug 0 ground	P-0600H-1	2.95

1

Diodes

A semiconductor device which passes current in the forward direction (from anode to cathode), that blocks current in the opposite direction.

Type	Amps	Volts	Part #	Price
1N4004	1	50	P-Q1N4004	$0.25
1N4005	1	600	P-Q1N4005	.19
1N4006	1	800	P-Q1N4006	.25
1N4007	1	1000	P-Q1N4007	.19
1N4148A	1	600	P-Q971	.19
1N5404	3	400	P-Q1N5404	.39
1N6A05	6	50	P-Q6A05	.39

Fast Recovery Diodes

Type	Amps	Volts	Part #	Price
1N4937	1	600	P-Q1N4937	$0.19
FR107	1	1000	P-QFR107	.29

Hexfred Diodes

High performance, ultrafast diodes. Improve efficiency, reduce noise, allow higher frequency operation.

Type	Amps	Volts	Part #	Price
HFA08TB60	8	600	P-QHFA08	$2.95
HFA16TA60C	16	600	P-QHFA16T	2.95
HFA16PB120	16	1200	P-QHFA16P	7.95

Silicon Rectifier

750MA 600PIV	While Supplies Last!	P-Q974	$0.35

Terminal Strips

Sold in bags of 5 each except as noted. While Supplies Last!.

Wire Wrap Style	Part #	Price
2 lug 1 ground	P-0201HWW	$1.95
4 lug 0 ground	P-0400H	1.95
30 lug 2 ground	P-3002H	each 2.50

Miscellaneous Screw Terminal Strips While Supplies Last!

1 screw, 1 1/4" x 5/8"	S-H319	$0.25
2 screw, 1 5/8" x 5/8" package of 3	S-H313	.25
2 screw, 1 3/4" x 5/8"	W-HHS-872	.50
4 screw, 2 1/8" x 1 3/8"	S-H318	.35
6 screw, 4" x 7/8"	S-H317	.25
10 screw, 5 1/8" x 5/8"	W-HHS-930	1.25

Terminal Strip Assembly

Lugs and base are steel cadmium plated, mounting holes for #6 screw, phenolic strip. Package of 5. While Supplies Last!

Description	Part #	Price
6 lug, 0 ground	P-0600H-B	$3.75
7 lug, 0 ground	P-0700H-B	3.75
8 lug, 0 ground	P-0800H-B	3.75
9 lug, 0 ground	P-0900H-B	3.75

Zener Diodes

A semiconductor device that, above a certain reverse voltage (the zener value) has a sudden rise in current. If forward biased, the diode is an ordinary rectifier. When reverse biased, it exhibits a sharp break in its current-voltage graph. Voltage across the diode remains essentially constant for any further increase of reverse current.

Type	Watts	Volts	Part #	Price
1N4741A	1	11	P-Q1N4741A	$0.19
1N4748A	1	22	P-Q1N4748A	.19

Bridge Rectifiers

A full wave rectifier with 4 elements in a bridge circuit so that DC voltage is obtained from one pair of junctions when an AC voltage is applied to another pair of junctions. While Supplies Last!.

Type	Amps	Volts	Part #	Price
BR-34	3	400	P-QBR-34	$0.95
BR-62	6	200	P-QBR-62	1.75
BR-81	8	100	P-QBR-81	2.25
BR-84	8	400	P-QBR-84	1.75
BR-104	10	400	P-QBR-104	1.95
BR-2505	25	50	P-QBR-2505	5.75

Germanium Diodes

1N34A point contact germanium diodes, ideal for crystal radio detectors.	While Supplies Last!.	P-Q972	$2.50

[1]Atwater Kent, Stewart-Warner

The AK name comes in both solid gold and solid black colors, and the Stewart-Warner name is black with gold outline. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'POL,' and 'AV.'

S-M906 $4.50

[2]Emerson Treble-Clef Logo

Gold with black outline in two common sizes. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'SW,' 'POL' and 'AV.'

S-M905 $4.50

[3]Philco

Features the Philco name in 3 sizes, and 20 different knob function labels as found on Philco receivers of the 1930's and 1940's. All in gold with black outline. "OFF-ON," "BASS," "B'DC'ST," " POL," " S.W.," TONE," "BAND SELECTOR," "TRANSITONE," "HIGH FIDELITY," "MAGNETIC TUNING," "VOLUME," "TREBLE," "SELECTIVITY," and "PHONO-RADIO."

S-M907 $5.95

[4]General Electric, Fada & Garod

The "General Electric" logo appears in 3 commonly used sizes, along with "Fada Radio," and "Garod." Gold with black outline.

S-M909 $4.95

[5]Emerson, DeWald, Belmont, Sonora & Tom Thumb

Gold with black outline. "Emerson" script logo (without treble clef sign) and other manufacturer's logos for popular plastic radios.

S-M910 $4.50

[6]RCA, Stromberg-Carlson & Admiral

Gold with black outline. "RCA Victor" appears in three different logo styles, along with "Stromberg-Carlson" and "Admiral."

S-M908 $5.75

[7]Zenith

Gold with black outline in two common sizes. Also contains the words 'AUTOMATIC,' 'MEDIUM WAVE,' 'STD. BROADCAST,' and 'SHORTWAVE.'

S-M904 $4.25

Note: Not to scale.

Decal Deal!

We have another deal for you. Buy one of each type of decal and receive over 20% off if you purchased each one individually.

S-MDECAL-SD $27.45

Instructions for Applying Water Release Decals

Cut out the portion of the decal sheet to be used and soak in warm water until the decal slides off the paper backing. Immediately apply wet decal to the radio cabinet and pat dry. Lacquer finish may be applied over the decal(s) if desired. Do not soak too long, and watch carefully!

Station Call Letter Tabs

Reproduction paper station inserts like used on Philco and other late '30's and '40's vintage radios with push-button tuning. Over 300 stations provided with 3/16" high letters in translucent ivory color on black background. Trim to size to fit various models. P-D130 $4.95

WSMK WSM WSNJ WSMB

Dri-Transfer Lettering

Rub-on lettering simplifies panel labeling, dial marking etc. Available in either black or white.

Dial Marking Kit

Contains dial patterns, arcs, lines, dots, switch symbols, graduation lines, lines for rotary tap switches and calibrated meter dials. 3 sheets.

Black	S-M175	$4.75
White	S-M176	4.75

Do-It-Yourself Electroplating

Replate nickel, silver or brass radio and phonograph parts. Uses current from any 3 to 6 volt DC supply or batteries. Plating brush connects to positive voltage and part being plated connects to negative. Brush sold separately. 2 oz. jar.

Plating Compound

Gold	S-F221	$85.95
Brass	S-F222	7.95
Copper	S-F296	7.95
Nickel	S-F223	12.95
Silver	S-F224	24.95
Plating Brush (instructions included)	S-F225	5.75

Audio, TV and Hi-Fi

Contains over 400 words from 'AC' to 'Zero' in alphabetical order as well as miscellaneous numbers and letters. 1/8" tall lettering. 4 sheets.

Black	S-M177	$4.75
White	S-M178	4.75

Amateur Radio and CB

Contains over 300 words from 'AC' to 'X-TAL' in alphabetical order as well as miscellaneous numbers, letters and frequency designations. 1/8" tall lettering. 4 sheets.

Black	S-M179	$4.75
White	S-M180	4.75

Dial Drive Cable

No-stretch black cord made of nylon braid over a fiberglass core. Available in 25' lengths.

Description	Part #	Price
Medium/Heavy .040" diameter	S-M74-25	$4.25
Standard Thin .028" diameter	S-M75-25	3.95

Use with tension springs below.

Also available is dial cord for your Dynaco tuner in case your old stuff is worn or even (dare we say it?) cracked and broken! While Supplies Last!

S-MDYNA 2.50

Tension Springs

Use for dial drive or turntable. Package of 10.

S-H400 $1.00

Atwater Kent Tuning Belts

Beryllium copper belt stock for early AK and other dial drives. .004" thick by 3/16" wide. Can be easily soldered for joint. 5 feet long. While Supplies Last!

S-M242 $7.95

Atwater Kent Dial Drive Pulley

A functional reproduction of the Atwater Kent pulley used in the belt drive systems of mid-twenties vintage TRF receivers. Pulley is double-width two-belt type, but may also be used to replace the single-belt pulleys. 1 5/8" overall diameter, 1/4" inside diameter, 1/2" wide.

P-D115 $24.95

NOS Dial Belts

Call for limited selection. S-MDIAL-BELT $11.95

Philco 70 Escutcheon Brown Reproduction

P-D199 $7.95

Dynaco FM-1 Tuner Tuning Indicator Panel

You just replaced the EM84 indicator tube in your Dynaco tuner, but can't see it through the scratches and cracks and years of dirt. Replace the panel with a brand new one!

P-D200 $1.95

Zenith Dial Glass

A reproduction of the round convex glass that covered the tuning dial on middle and late '30's Zeniths. 0.5 lb, 8 1/2" diameter.

P-D272 $8.95

Dial Glass Rubber Extrusion

High quality neoprene rubber extrusion available in three sizes. Sold by the foot.

Description	Part #	Price
5/32" w x 3/16" h .090" internal gap	P-D280	$3.75
7/32" w x 3/16" h .080" internal gap	P-D281	4.95
1/8" w x 1/8" h .050" internal gap	P-D282	3.95
7/32" w x 1/8" h .100" internal gap	P-D283	3.50

Dial Reproduction Material

Translucent tan color plastic sheet, can be cut with scissors. Ideal for making replacement Philco or other dials. 8" x 10" sheet, .016" thick.

S-M190 $8.95

Black Panel Material

Black Lucite panels closely resemble "Bakelite" panels used on early battery radios. Glossy finish, 1/4" thick. Can be difficult to machine.

Description	Part #	Price
8" x 12"	S-M710	$7.95
8" x 24"	S-M710L	13.95

Zenith Log Card

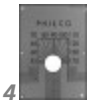
Perfect replication of the log card from Zenith model 7G605. More commonly known as the Zenith Clipper Transoceanic or Zenith Bomber Transoceanic. Replaces the damaged card that you inherited with your radio. Has semi-gloss finish and matches the original cardboard thickness. Holes are not pre-drilled due to variations from radio to radio.

S-MZENITHLOG $9.95

Philco Radio Dials

Philco generally used these dials with the listed models; however, there are some exceptions so please check your equipment thoroughly. Light brown translucent plastic with black lettering.

Description	Part #	Price
[1]Philco 33B	P-D27-5210	$14.95
[2]Philco 84B	P-D27-5168	13.95
[3]Philco 37-84	P-D27-5031	13.95
[4]Philco 93B	P-D27-5100	13.95



Leather Replacement Handles for Early Radios

Genuine Leather handles fit many Zenith, Philco and Emerson portable radios, as well as other brands. Includes metal brackets and rivets.

Bracket Spacing	Color	Part #	Price
4.5"-5.5"	Tan[1]	P-H254	$16.95
4.5"-5.5"	Black[1]	P-H255	16.95
5"-6"	Tan[2]	P-H256	16.95
5"-6"	Black[2]	P-H257	16.95
5.5"-6.5"	Black[3]	P-H258	19.95

Direct replacement for early RCA portables! Leather with steel reinforced handle, 6 1/4" spacing, brown.[4]

Brackets not included P-H259 24.95

See page 62 for more handles!

Magnolia Glayzit *NEW!*

For restoration of Bakelite. A siliconized polish that restores Bakelite with it's blend of premium wax and oil.

	S-C250	$12.95

Plastic Polish

Novus #1 - Cleans and glazes plastic surface to resist finger markings, dust buildup and is anti-static.

2 ounces	S-C216	$1.95
8 ounces	S-C226	3.95

Novus #2 - Removes fine scratches, abrasions and haziness from plastic surfaces. Great for plastic radio dial windows. For best results, follow with Novus #1 polish.

2 ounces	S-C217	2.50
8 ounces	S-C227	4.95

Novus #3 - Removes scratches from acrylic surfaces. More abrasive than #2. Effective for deeper scratches. Treatment must be followed by #2 to buff and polish the surface.

2 ounces	S-C215	2.95
8 ounces	S-C225	5.95
Buy each type of the 8 oz size bottles and receive over 10% off the single piece price.	S-CPOLISH-SD	13.35

Mohawk Ultra-Classic Toner

Ultra-Classic Toners utilize a non-fading, non-bleeding dye to provide excellent clarity. Wood shades can be varied without imparting the "muddy" effect sometimes associated with pigment type toners. Get dye-based transparency with the highest rating of light-fastness available for dyes. Excellent flow out, Mar & alcohol resistant, No overspray. Net weight 13 oz.

Perfect Brown-A nice warm shade that is great match for 1930's and 1940's sets.	S-F306*	$6.95
Walnut Brown-Use as a replacement for Burnt Umber. Great for late 1920's to early 1930's sets.	S-F309*	6.95

***NOTE: Federal regulations prohibit us from shipping these products by air (noted with * after part number)**

Mohawk Tone Finish Toner

Also known as shading of toning lacquer. This is an opaque, pigmented lacquer finish that will build a darker and darker color with subsequent coats. Best for duplicating the shading effect on the edges of cabinets. Should be top coated with clear after the desired color is achieved. Net weight 13 oz. Van Dyke Brown. S-F305* $6.95

Mohawk Ultra-Flo Clears

See the technical corner on our website for 20 tips on using these toners.

Formulated with special resins and solvents to provide a finish film free of orange peel. Little or no overspray when used over spot repairs or over an existing lacquer finish. Saves time, as the finish film will not require sanding or rubbing. Net weight 13 oz.

Gloss	S-F301*	$6.95
Satin	S-F302*	6.95
Flat	S-F303*	6.75

Mohawk Lacquer Sanding Sealer

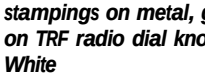
Helps fill grain pores on open grain woods and prevent blotchy absorption of penetrating stains on birch or maple cabinets or trim pieces. Seals end grain. Net wt. 13 oz aerosol can. S-F304* $6.95

Clear Spray Shellac

Provides a clear coating for many different surfaces. Shellac has an unusual adhesion to hard-to-grip surfaces. Hold out is exceptional on wood, plywood and plaster. Recommended for spot sealing knot holes, sap streaks and refilled areas before refinishing. Net weight 12 oz.

S-F308* $8.95

Lacquer Stick Wipe On Paintstick



Quick economical way to color engraved lines or stampings on metal, glass, plastics, etc. Works great for filling in markings on TRF radio dial knobs and faceplates.

White	S-F229	$2.95
Gold	S-F230	4.25
Red	S-F437	2.95
Black	S-F438	2.95

"Micro-Mesh" Plastic Restoration System

The most efficient system available for removing scratches and haziness from plastic radio cabinets and clear dial windows. Each kit contains 5 pieces of 3" x 6" Micro-Mesh cushioned abrasive cloth ranging from coarse to ultra-fine, foam sanding block, 3 oz bottle of Micro-Gloss liquid abrasive and a soft buffing cloth. Net weight 8 oz. S-C228 $19.95

Wrinkle Finish

*Great for refinishing vintage metal radio cabinets, faceplates and speakers. 12 oz. spray can.**

Jet Black	S-F227*	$6.95
Grey	S-F701*	7.95

Paint compatible for use with S-F701 to make brown wrinkle finish.

Dark Brown	S-F226P*	6.95

Hints for Wrinkle Finish paint: Surface must be clean and dry. Clean means no oil, grease or fingerprints. Be sure that temperature of the paint can and the surface to be painted is between 70 and 90 degrees. Spray with even strokes at a distance of 8" to 12". Apply a fairly heavy coat. Spray a 2nd coat approximately 3 minutes after the 1st, also fairly heavy. The wrinkling will appear gradually, requiring about 12 hours at room temp to completely develop. Tip: experience seems to indicate that a better finish develops when sprayed onto bare metal.

Tibet Almond Stick

Wipes out scratches in wood radio cabinets quick-as-a-wink. Simply rub end of stick over scratches in any type of wood and watch them disappear like magic! S-C243 $3.95

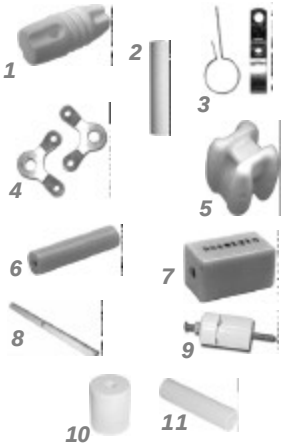
Plas-T-Pair

A complete repair kit for plastic knobs, radio cabinets and other plastic parts. It can be poured into a crack or molded to fill gouges, holes, or make parts. After setting it can be sanded, drilled or polished. S-C244 $9.95

Insulators

While Supplies Last!

Description	Part #	Price
[1]Old style insulator for antenna installations, molded plastic	S-H2130	$1.50
[2]Ceramic form, 2 1/2" long by 1/2" diameter. Both ends with 6-32 threads. Use as standoff or coil/choke form	S-H135	.95
[3]Mounting bracket for above, package of 10	S-H113	.25
[4]Double eyelet for above, package of 10	S-H114	.25
[5]Porcelain egg-shaped insulator. 1 1/4" x 7/8"	S-H131	1.95
[6]Porcelain rectangular insulator, 0.7" x 0.7" x 1.2" long, 8-32 threads at both ends	S-H132	.95
[7]Porcelain cylindrical insulator, 3/8" x 1 1/2" long, 6-32 threads on both ends	S-H133	.95
[8]Porcelain Insulator 12" x 11/16", made of Steatite	S-H136	1.25
[9]Antenna nail on knob. Glazed, insulated. Use to attach antenna to exterior of buildings, trees etc.	S-H134	1.95
[10]Porcelain cylindrical insulator 1" x 1 1/4", 1/4-20 threads both ends	W-HHS-2622	1.25
[11]Porcelain cylindrical insulator 1/2" x 2", 6-32 threads both ends	W-HHS-2612	1.50



Insulating Cambric

Yellow varnished cambric .010" thick, used in switches, under terminals, in transformers, field coils, chokes etc. Dielectric strength 5,000V 9" wide roll contains 210 sq. inches. S-M549 $5.60

Fish Paper

Gray insulating paper .010" thick, used in switches, under terminals, in transformers etc. where mechanical strength is required. Dielectric strength 3,000 volts. 9" wide roll contains 250 sq. inches. S-M560 $4.95

AC Line Interlock

1 1/4" mounting centers.

non-polarized	P-SP2-K-002	$0.50
polarized	P-SP2-K-003	.50

Shielding Braid

Tubular, 1/2" diameter. Sold by the foot. S-W411 $1.75

Heat Shrink Tubing Assortment

Assortment of 2" heat shrink in many colors and sizes. Shrinks to 50% of it's original size. S-M14 $1.25

Heat Shrinkable PVC Tubing

Shrinks to half it's original size when heated by heat gun, soldering iron or just a match. Use for insulating terminals, connectors and wire splices. Comes in 6" lengths and quantity shown.

Orig. dia.	Qty/Bag	Part #	Price
.125"	30	S-M12-1044	$4.50
.187"	27	S-M12-1046	4.50
.250"	23	S-M12-1048	4.50
Assorted	23	S-M12-1080	4.50

Two Conductor Shielded Cable

Two stranded 24 gauge wires, PVC insulated, cabled with fillers. Bare copper spiral shield. Blue outer insulation. Approximately 1/8" outside diameter. Sold per foot. While Supplies Last!. S-W450 $0.35

Sleeving

1" "expando mesh." Sold by the foot. S-M100 $0.95

Strain Relief

Rubber type for standard zip cord. for 1/4" diameter hole	P-H11-402	$0.35
Two conductor (SP1)	P-H11-406	.30
Three conductor (fits S-W121)	P-H1100	.30
16/3 SJT, 7/16" cord diameter	P-H1200	.35
Snap bushing, 7/16" ID, 9/16" chassis hole, 0.4" height. Package of 5	W-10540	1.00
Right angle. 1/4" - 11/64" wire diameter size	W-HHS-825	.35
1/4" - 19/64" wire diameter size	W-HHS-939	.25
SPT-2 wire size	W-HHS-822	.35

Cable Clamps

Black nylon. Meet MIL spec P17091A. Temp range from -60° F to + 250° F.

1/4" hole	W-HHS-773	$0.15
5/16" hole	W-HHS-774	.15
7/16" hole	W-HHS-776	.15
1/2" hole	W-HHS-777	.15
5/8" hole	W-HHS-779	.15

Yellow nylon. Butyrate. Meet MIL spec 242B & 3914. Temp range from -60° F to + 175° F.

1/4" hole	W-HHS-833	$0.15
1/2" hole	W-HHS-837	.15
9/16" hole	W-HHS-838	.15
Steel cadmium. 3/4" length, 3/8" width, 1/4" cable	W-HHS-1470	.15
Steel cadmium. 1" length, 3/8" width, 1/2" cable	W-HHS-1472	.15

Wire Clamp

High quality, with rubber protector. P-H1101 $0.25

Braided Copper Tubing

Ideally suited for shielding, bonding and grounding of all types of electronic equipment. Available in two lengths.

3/16" x 3'	S-W409	$1.50

Old Style Spaghetti

Black fiberglass sleeving is varnished and closely resembles early style spaghetti. Available in two sizes. 10 foot minimum per size.

20 AWG	S-M436	$0.50
11 AWG	S-M401	.60

Cloth Covered Hook-Up Wire

#20 stranded copper wire covered with cotton braid, closely resembles wire used in the late 20's and 30's. Available in 8 colors, on 50' spools.

Color	Part #	Price	Color	Part#	Price
Orange	S-W703	$6.95	Green	S-W707	$6.95
Black	S-W704	6.95	Yellow	S-W708	6.95
Red	S-W705	6.95	White	S-W709	6.95
Blue	S-W706	6.95	Brown	S-W710	6.95

Screaming Deal! Buy all colors of Cloth Covered Hook-Up Wire at the same time and receive over 10% off over buying each one individually. S-WHOOKUP-SD $52.20

Cotton Covered Multi-Conductor Cable

8 conductor 20 gauge stranded wire with brown cotton braid over all. Replaces 1920's Atwater Kent battery cable etc. Sold by the foot. S-W711 $2.95

20 AWG Solid Core Push Back Wire

#20 solid core copper wire covered with cotton braid, closely resembles wire used in the late 20's and 30's. Available in 8 colors, on 50' spools.

Color	Part #	Price	Color	Part#	Price
Orange	S-W803	$6.95	Green	S-W807	$6.95
Black	S-W804	6.95	Yellow	S-W808	6.95
Red	S-W805	6.95	White	S-W809	6.95
Blue	S-W806	6.95	Brown	S-W810	6.95

Screaming Deal! Buy all colors of 20 AWG Push Back Wire at the same time and receive over 10% off over buying each one individually. S-WSOLID20-SD $52.20

"Push-Back" Cloth Covered Wire

Solid Core push-back hook-up wire. 22 AWG. 20 foot minimum. Sold by the foot.

Black	S-W712	$0.25
Red	S-W712R	.25
White	S-W712W	.25
NOS Red, cotton covered While Supplies Last!	S-W22-RED	.25

600 Volt Stranded Tinned Hook-up Wire

Copper wire. UL style 1015, rated to 105°C. Perfect for new projects or rewiring of any electrical equipment. Available in 16 (While Supplies Last!!) and 22 gauge on 50 foot spools.

Color	22 AWG	Price	16 AWG	Price
Black	S-W22B	$3.75	S-W16B	$4.75
White	S-W22W	3.75	S-W16W	4.75
Green	S-W22G	3.75	S-W16G	4.75
Red	S-W22R	3.75		
Yellow	S-W22Y	3.75		
Orange	S-W22O	3.75		

Magnet Wire

Insulated with two coats of enamel. Perfect for winding coils and transformers.

21 gauge, 100 foot spool	S-WL3-610	$5.50
22 gauge, 100 foot spool	S-WL3-611	5.50
24 gauge, 200 foot spool	S-WL3-612	5.50
28 gauge, 200 foot spool	S-WL3-614	4.95
32 gauge, 400 foot spool	S-WL3-616	4.95
36 gauge, 750 foot spool	S-W318	4.95
40 gauge, 750 foot spool	S-W320	4.95
42 gauge, 750 foot spool	S-W319	4.95

Stranded Aerial Wire

Stranded 16 gauge copper wire, not insulated. For outside antennas. 50 foot roll. S-W32-146 $6.95

Bus Wire

#22 solid tinned copper bus wire. Approximately 100' per spool. S-W428 $4.25

NiChrome Resistance Wire

Use for making wirewound resistors, small heater elements, or repairing filament potentiometers. Available in four sizes. 20 foot minimum.

Ohms/ft.	Gauge	Part #	Price/ft.
2.57	26	S-W500	$0.19
4.09	28	S-W501	.19
6.50	30	S-W502	.18
20.80	35	S-W503	.18

Celanese Covered Wire

White celanese covered. Resembles early cotton covered wire. May be color dyed. Litz wire ideal for loop antennas. Cotton wrap. 20 foot minimum per type.

#24 magnet wire, price per foot	S-W203	$0.08
#26 magnet wire, price per foot	S-W107	.07
54/38 Strand-Litz Wire, price per foot	S-W106	.12

Early Style Square Bus Wire

#12 AWG Square tinned copper, per 10 feet. S-W140 $2.95

Speaker Wire Sold by the Foot

High definition oxygen-free copper wire. 112 strand, 16 gauge speaker wire. Low loss, 2 conductor with Superflex®. Extra soft PVC insulation. Sold by the foot.	S-WS16	$0.95/ft
16 AWG Speaker Cable. Make your own cable! Excellines 16 AWG two conductor. Non-shielded. Sold by the foot. See page 50 for compatible plugs.	P-HSG-FT	.48/ft

Old Style Speaker Wire

Brown cloth-covered two-conductor tinsel wire, as found on 20's vintage horn and cone-type speakers. Sold by the foot, terminals not included.	P-W413	$1.75

Braided Covered Power Cord

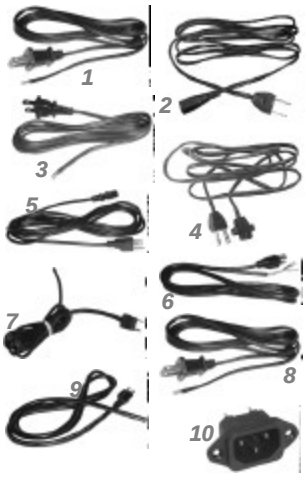
Brown 2 conductor 18 gauge, stranded power cord, similar to woven cloth covered cords in early AC radios.

20 feet	S-W102-20	$6.95
50 feet	S-W102-50	15.95
250 foot spool	S-W102-250	67.50
Gold sold by the foot	S-W102G	.75
Large dimension braid covered power similar to above but with larger overall physical dimension to more accurately represent type of wire used on early AC radios. Sold by the foot.	S-W103	2.95

AC Cord Plug

UL rated. Flat, brown phenolic plug, 1 1/2" wide x 1 3/16" deep.
P-SP2-104 $2.25

Replacement Power Cords



Description	AWG	Cond	Length	Part #	Price
[1]Black, SPT-1, non-polarized, tinned leads	18	2	6'	S-W118	$1.95
[2]Black, SPT-1, non-polarized, detachable (Panasonic type)	18	2	6'	S-W117	1.50
[3]Brown, SPT-1, polarized	18	2	6'	S-W104	1.75
[4]Brown, SPT-1, non-polarized, detachable	18	2	6'	S-W105	1.50
[5]Black, detachable, mates with receptacle P-SP2-106	18	3	8'	S-W123	4.50
[5]Black, detachable, mates with receptacle P-SP2-106	18	3	12'	S-W124	7.95
[6]Black, with shield	18	3	6' 7"	S-W121	2.50
[7]Black, polarized	18	2	6'	S-W453	1.75
[8]Black, 13A, molded low profile plug	16	3	8'	S-W125	4.50
[8]Black, 13A, molded low profile plug	16	3	12'	S-W126	7.95
[9]Black, SJT, molded plug	14	3	6' 6"	S-W122	3.50
[10]I.E.C. Power Cord Receptacle. Mates with power cords S-W123 & S-W124. Rated for 15A, 250V. UL listed				P-SP2-106	1.75

E-Cords

Extension cords designed for use in the entertainment industry. Power Block® 3 outlet connector. All black. Very flexible and durable. Made by Electricord®.

Description	Part #	Price
14 AWG, 3-outlet. 6 foot ProCo E-cord	S-W206	$5.50
14 AWG, 3-outlet. 12 foot ProCo E-cord	S-W212	6.95

Eveready Batteries

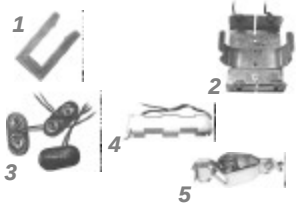
The following Eveready batteries are useful for powering portable radios like the Zenith Transoceanic, subminiature tube radios, and early transistor radios. The S-Z415 is used in our K-436 Regenerative Radio Kit. See p. 88 for standard batteries.

Number	Volts	Size	Part #	Price
276	9	2.56" x 2.03" x 3.16"	S-Z276	$13.95
412	22.5	1.05" x 0.63" x 1.80"	S-Z412	6.95
415	45	1.05" x 0.63" x 3.69"	S-Z415	13.95
455	45	2.66" x 1.00" x 3.69"	S-Z455	19.95
416	67.5	1.25" x 0.94" x 3.38"	S-Z416	19.95
467	67.5	2.81" x 1.38" x 3.71"	S-Z467	29.95

Military Surplus Batteries

Description	Part #	Price
15 Volt. 1.15" x 1.5" x 1"	S-Z287	$1.95

Battery Accessories



[3]9 Volt Clips. Package of 3. Clips can also be used on S-Z415 and S-Z416	S-H155	$0.45
[2]Two "C" cell battery holder	S-H156	.75
[4]Four "AA" cell holder	S-H157	.35
[1]Retaining clips. For cheater cords. Package of 10	S-H117	.25
[5]HH Smith battery clip. Electroplated steel. 25 amp, 1" jaw spread, 17 pound spring, 2 1/2" length.	W-HHS-701	1.20

Jif Action

Cleans and provides long lasting protection for electronic controls, switches, relays, potentiometers and other components. Stops noise and squeaks. Contains silicone additive.

6 oz.	S-C19-634	$3.95
16 oz.	S-C19-636	6.75

This item is great for antique radios!

Big Bath

All purpose degreaser and cleaner for electrical contacts, switches, pc boards and components. Evaporates instantly and leaves no residue.

12 oz	S-C19-902	$8.95
22 oz	S-C19-903	11.95

Little Bath

Hydrocarbon based cleaner/lubricant.
NOTE: Not for use on energized equipment! 4 oz.

S-C19-723 $4.75

De-Ox-Id

Solventless light oil based contact treatment compound counteracts oxidation. 4 oz.

S-C19-1906 $6.95

Flux Remover

Removes oil, grease and soldering fluxes. Very effective for cleaning activated fluxes and other ionic contaminants. Product may affect polystyrene, polycarbonate and acrylic parts, test for compatibility. 12 oz.

S-C11109 $8.95

Gold Guard Pen

The pen that cleans and lubricates gold and other noble metal contacts and connectors. Extends the life of noble metal contacts. Chisel tip marker for exact delivery of solvent to surface. While Supplies Last!.

S-CCW7400 $4.95

Anti-Static Airjet

Clean hard to reach places. Anti-static formula minimizes static buildup. Blows away dust, dirt and grit without scratching. Contains no ozone depleting chemicals. Non-flammable. 12 oz can.

S-C19-8475SF $8.95

White Lithium Grease- Formerly Lubriplate

White lithium based grease lubricant. Good for use on wiping contacts and sliding parts. Will not oxidize or harden. 1¾ oz tube.

S-C10-2302 $3.75

Phonolube

Light bodied grease made of polymerized oil specially developed for the lubrication of small geared mechanisms. Retains its viscosity over a wide range of temperatures.

2 oz tube. S-C10-1223 $4.50

Service Cement

A quick drying waterproof clear adhesive which forms a strong vibration resistant bond. Ideal for speaker repairs and bonding semi-porous materials to each other or to metals, plastics, etc. 2 oz bottle.

S-C10-302 $5.75

Rubber-to-Metal Cement

A heavy-bodied, black rubber based cement with outstanding bonding qualities to many materials such as natural and synthetic rubber, metal, wood and plastics. Dries quickly. Used to cement any rubber or flexible plastic part to cabinets, chassis or panels; also for gaskets, weather strips, etc. 2 fluid oz bottle with brush.

S-C10-352 $7.95

Tolex Adhesive 3M Super 77

Spray adhesive ideal for bonding tolex (or any other cloth, foil, felt, paper, etc.) to plastics, painted or unpainted metals, wood, hardboard and many other materials. Provides high coverage (over 160 sq. ft. per can), faster, more aggressive tack, longer bonding range and lower soak-in. Two spray tips are provided, one for large bonding areas and the other for smaller bonding areas. 16.5 oz aerosol can.

S-F315 $11.95

Tolex Glue

Brush-on adhesive ideal for applying tolex. Cleans up with soap and water. No nasty solvents required. Does not stretch or shrink the vinyl. Quart.

S-F316 $15.95

Red X Corona Dope

Polyester based re-enamel that will not drip or sag. Oil and waterproof. Temperature range to 220°F. For moisture proofing and insulating high voltage coils and components. Dielectric strength. 1700 V/mil min. Dielectric constant 3.7. 12.25 oz. While Supplies Last!

S-C10-5012 $14.95

Rubber Revitalizer

Removes "dead" rubber from old rubber surfaces to clean and revitalize idler wheels, belts and pinch rollers. 1 oz bottle.

S-C220 $5.25

Belt & Drive Non-Slip

Prevents slippage and restores proper function on belts and drive wheels in turntables and tape recorders, especially where the rubber has hardened or become slick. 2 fl. oz.

S-C10-8602 $5.75

Graphite Lubricant

Dry powdered graphite is the finest lubricant for metal, wood, plastic and rubber. 1⅛ oz net wt.

S-C19-821 $4.50

Pen Oiler

High quality non-gumming instrument oil. Fine long-reaching metal tube extends and retracts. Use on timers, clocks etc. 0.5 oz

S-C10-984 $3.95

Since 1956 CAIG LABORATORIES, INC.

All CAIG products are priced more than 10% below Retail!

DeoxIT

DeoxIT dissolves oxides and sulfides that form on metal contact surfaces, removing these sources of resistance. This restores the contact's integrity and leaves a thin (organic) layer that coats and protects the metals. Special additives prevent the dissolved oxides from re-attaching, keeping them in suspension and allowing them to be easily dispersed by the mechanical action of the contact.

Spray: provides a light (5%) coating of DeoxIT liquid. 5 oz (200ml), flammable until solvent evaporates, adjustable valve. No CFC's/HCFC's.
S-CD5S-6 $9.75*

Pump Spray: 50% concentrate solution. Non-flammable. 150ml. May be shipped by air and to Canada! *S-CDP5S-6 12.40*

Pen Applicator: 100% concentrate. Environmentally safe, non-flammable, non-corrosive, non-toxic.
S-CD100P 13.30

** Cannot be shipped by air or to Canada.*

R5 Power Booster

A unique liquid that improves the flow of electricity on metal surfaces. The best solution for improving and preserving the performance of electrical connections. R5 Power Booster contains active ingredients that dissolve contamination on the metal surfaces, fill in the minute gaps in the metal surfaces and provide long lasting protection from future contamination. Provides a light (5%) coating of R5 Power Booster liquid. 5 oz (200ml) non-flammable, adjustable valve.
S-CR5PS-6 $23.10

PreserviT

Seals, lubricates and preserves metal surfaces against oxidation and contamination. Use on: clean/new surfaces or those cleaned with DeoxIT. Provides a light (5%) coating. 5 oz (200ml), adjustable valve, no CFC'S/HCFC'S.
S-CP5S-6 $9.75

CaiKleen RBR

Rubber cleaner and rejuvenator. Rejuvenates and cleans all rubber rollers, parts and plates. 59 ml squeeze bottle. 100% solution.
S-CRBR100L-2 $9.85

25 ml precision needle dispenser. 100% solution.
S-CRBR100L-25C 8.95

CaiKleen TRP

Degreaser, Defluxer, Label Remover
Citrus based cleaning solvent for removal of oil, grease, and flux from equipment and parts. Biodegradable, flammable.
S-CDG7S-6 $6.20

CaiLube MCL

Moving contact lubricant. A precision lubricant for moving contact surfaces (faders, switches, potentiometers, and other mechanisms with sliding surfaces). Replenishes lost lubrication from cleaning solutions. 5 oz (200ml), 5% spray.
S-CMCL $9.75

ProGold

ProGold is specifically formulated to improve conductivity and provide long-lasting protection on gold, precious metals and their base metals. It conditions connectors, contacts, and other metal surfaces, thus enhancing the conductivity characteristics to efficiently transmit electrical signals. ProGold's superior formula contains conditioners, deoxidizers, preservatives, conductivity enhancers, arcing and RFI inhibitors and anti-tarnishing compounds. These reduce intermittent connection problems and significantly increase the quality and reliability of electrical components and equipment.

Spray: Provides a light (5%) coating of ProGold liquid. 5 oz (200ml), adjustable valve. No CFC's/HCFC's. *S-CG5S-6 $15.98*

Pen Applicator: Environmentally-safe, non-flammable, non-corrosive, non-toxic. *S-CG100P 18.65*

ProGold GL

Extended temperature, longer-lasting formula, -45°C to 400°C. Field and lab tested to provide ten years of protection and service life without deterioration, gumming or varnishing. ProGold GxL provides superior lubrication, anti-tarnishing, conductivity enhancing and protection to metallic surfaces. Ideal for vacuum tube pins and sockets! Provides a light (5%) coating of ProGold liquid. 5 oz (225ml), adjustable valve. Non-flammable, fast evaporating carrier solvent that is safe on plastics.
S-CGX5S-6 $26.65

FreezALL

Cools circuits to -54°C. Locates intermittent components (capacitors, resistors, transistors, etc.), due to heat failure, hairline cracks on printed circuit boards. Provides low temperature testing of electric circuits. 200 ml spray.
S-CFZ7PS-10 $11.50

CircuitWriter

Circuit Writer precision conductive ink dispenser makes instant traces on epoxy, glass, and metal. Draw traces on circuit boards, design prototype circuits, repair rear-window heater traces. 7 ml pen dispenser.
S-CCW100P $12.40

Accessories

Foam Swabs

100% lint-free open cell urethane foam. Retains lubricant and solvent for light applications. Non-abrasive and chemical resistant. Package of 6.
S-CSWP-6 $4.40

Cleaning Brushes

Nylon brush for cleaning contacts and connectors. Ideal for phone and phono (RCA), XLR, coax connectors and patchbays. Package of 6.
S-CAB-6 $4.40

Weller Marksman Soldering Iron

- Input Voltage: 120
- Power Consumption: 40 watts
- Tip Temperature: 900ºF
- Heating Element Type: Nichrome Wound, fiberglass and ceramic insulated
- On/Off indicator light
- Includes 1/4" chisel tip (S-TMT10)

S-TSP40L $17.95

Weller Soldering Iron

- Input Voltage: 120
- Power Consumption: 35 watts
- Tip Temperature: 850ºF
- Heating Element Type: Nichrome wound, fiberglass and ceramic insulated
- Lightweight handle with cushion grip for ease of use and comfort
- Comes with 1/8" screwdriver tip (S-TST3)
- Stand (S-TPH60) sold separately (see below)
- Three wire grounded power cord for your safety

S-TWP35 $43.95

Weller Variable Power Soldering Station

- Input Voltage: 120
- Output Voltage: 120
- Power Consumption: 5 - 40 watts
- Temperature Range: 900° F max
- On/Off switch with "power-on" indicator light
- Variable control produces 5 to 40 watts
- Natural sponge tip cleaning pad
- Ideal for hobbyist, DIY'ers and students
- Includes 1/8" screwdriver tip (S-TST3)

S-TWLC100 $49.95

Weller Controlled Output Professional Soldering Station

- Input voltage: 120
- Output voltage: 24
- Power Consumption: 60W
- Unique closed loop method of controlling maximum tip temperature - protects temperature sensitive components
- A ferromagnetic temperature sensor in the tip controls tip temperature - no adjustments are necessary
- Lighted switch
- Tips available in 700ºF and 800ºF ranges
- Tips Determine Temperature (1/16" Screwdriver 700ºF tip S-TPTA7)

S-TWTCPT $137.95

Weller Cordless Soldering Iron Kit

- Professional quality Portasol® self-igniting heat tool
- Ideal for soldering, heat shrinking or rope cutting
- Butane fuel level is visible through a window on the body of the tool
- Built in fuel filter reduces contaminated fuel problems
- Auto switch safety shut off on the cap
- Operates up to 2 hours per refill
- Temperature is adjustable to 1076ºF
- Kit contains PSI100 iron, sponge, stand and extra tips, all packed in a plastic case
- Butane lighter gas, not included

S-TPSI100K $92.95

Weller/Ungar Heat Gun, 1000 Watts

Dual temperature, heat gun is ideal for:

- Applying heat shrink products
- Curing epoxy and softening adhesives
- Softening and molding plastics
- Heating liquids and stripping paint
- Drying, thawing frozen pipes

Features:

- Dual temperature - 1200ºF (1000w) and 790ºF (400w)
- 3 way switch: Hi - Off - Low
- 3 wire grounded plug, 6' power cord

S-T1095 $54.95

Weller Manual Desoldering Pump

- One hand operation with spring loaded piston provides ESD safe solder removing vacuum
- Self cleaning, non clogging, static free replaceable tip

S-T7874B $21.25

Weller Bulb Solder Off

Help remove solder. Old style solder sucker.

S-T7805 $8.95

Replacement Tips for S-TWTCPT

- Tips are solid copper plated with iron all over, and nickel and chromium behind the working surface
- Designed to provide maximum heat transfer from the heater to the tip

Description	Part #	Price
1/16" Screwdriver tip, 700ºF	S-TPTA7	$6.10
1/16" Screwdriver tip, 800ºF	S-TPTA8	6.10
1/8" Screwdriver tip, 700ºF	S-TPTC7	6.10
1/8" Screwdriver tip, 800ºF	S-TPTC8	6.10
Conical tip, 700ºF	S-TPTP7	6.10
Conical tip, 800ºF	S-TPTP8	6.10

Replacement Tips for S-TWLC100 and S-TWP35

- Tips are solid copper with iron all over, and nickel and chromium behind the working surface
- Designed to provide maximum heat transfer from the heater to the tip

1/16" Screwdriver tip	S-TST1	$5.50
1/8" Screwdriver tip	S-TST3	5.50
Conical tip	S-TST7	5.50

Replacement Tips for S-TSP40L

Tip is solid copper, nickel plated and tinned

1/4" Chisel tip S-TMT10 $7.10

Replacement Tips for S-TPSI100

Description	Part #	Price
1/8" Single flat, up to 850ºF	S-TPSI3	$10.50
1/32" Single flat soldering tip, up to 850ºF	S-TPSI5	10.50
Hot knife tip, up to 850ºF	S-TPSI10	10.50

Accessories for S-T1095

Reducer - use for concentrating heat	S-T1080	$6.50
Reflector - use for heat shrink tubing/caps	S-T1082	6.50

Replacement Tips for S-T7874B

S-T7875B $4.50

Weller Bulb Solder Off Replacement Tips

For S-T7805 S-T7851 $4.75

Weller Soldering Iron Stand

S-TPH60 $21.95

Kester 44 Solder

60/40 rosin core solder		
Standard .050" diameter		
10 foot length	*S-TH3-390*	*$1.95*
1 lb spool	*S-T9000*	*10.95*
Fine line .031" diameter		
15 foot length	*S-TH3-391*	*2.75*
1 lb spool	*S-T9001*	*10.95*

Desoldering Braid

Made of finely-woven copper braid impregnated with pure rosin flux, for high efficiency and maximum solder holding capacity. 5' dispenser spool.

.08" wide	*S-T22-405*	*$3.95*
.15" wide	*S-T503*	*4.95*

Heat Sink

Absorb heat during soldering/desoldering sensitive parts. 2⅝" long, high carbon steel, hardened and with PVC coated handle.

S-T156 *$1.95*

Solder Aid Tool

Stainless steel, solder will not stick. 6½" long with plastic handle. Forked tip on one end, straight reamer on the other.

S-T9075 *$2.95*

Tube and Parts Extractor

Straight jaws for firm grip, spring steel construction, nickel plated, insulated jaws. While Supplies Last!

S-T5092 *$7.95*

Tube Pin Straightener

7 and 9 pin straightener, mounts on work bench. Limited quantity.

S-T8655 *$8.95*

Xcelite Precision Electronic Screwdriver Set

Set contains one each of:
- *1.5 mm x 60 mm slotted tip screwdriver*
- *2.0 mm x 60 mm slotted tip screwdriver*
- *2.5 mm x 60 mm slotted tip screwdriver*
- *3.0 mm x 60 mm slotted tip screwdriver*
- *#0 point Phillips tip screwdriver*
- *#00 point Phillips tip screwdriver*

Features:
- *Chrome-molybdenum vanadium steel blades*
- *Black oxide tips for longer wear life*
- *No-roll handle design keeps drivers from rolling off uneven surfaces*
- *Includes storage case* *S-TXP600* *$24.95*

Crescent® Six Piece Screwdriver Set

- *Industrial strength blades for rugged performance*
- *Molded handle for gripping comfort*

Each set contains one each of:
3/16" x 3" slotted, 3/16" x 6" slotted, 1/4" x 4" slotted, 1/4" x 6" slotted, #1 x 4" Phillips, #2 x 4" Phillips *S-TLCC1006* *$5.45*

Greenlee Chassis Punches

Round hole punches for use in mild steel (up to 10 gauge), aluminum, fiberglass and plastic. Make professional chassis punches on your projects. Absolutely no returns unless punch is defective!

½"	*S-T703012*	*$29.95*
⅝"	*S-T703058*	*36.95*
11/16"	*S-T7031116*	*37.95*
¾"	*S-T703034*	*41.95*
15/16"	*S-T7031516*	*41.95*
1"	*S-T703100*	*41.95*
1⅛"	*S-T703118*	*44.95*
1¼"	*S-T703114*	*44.95*

Greenlee Replacement Draw Studs

For ½" and ⅝" punches. Stud is ¼" x 1⅜"	*S-T703BOLT-SM*	*$8.95*
For 11/16", ¾", 15/16", 1", 1⅛" and 1¼" punches. Stud is ⅜" x 1⅝" and includes bearing	*S-T703BOLT-LG*	*19.95*

Deluxe Nibbling Tool

Cuts metal and non-brittle plastic. Will cut any size and shape of hole from the edge or from a ⅜" inside hole. Cuts steel up to 18 gauge as well as copper, brass, aluminum and plastics up to 1/16". Spring operated.

S-T806 *$12.95*

Xcelite 6" Electrical Pliers

- *For copper and aluminum wire 10-22 AWG*
- *Wire cutting and stripping edges*
- *Needle nose pliers add wire pulling and bending capabilities*
- *Scissors action stripper for cleaner, faster stripping*
- *Red cushion grips*
- *Serrated jaws* *S-T105CG* *$11.95*

Xcelite 4" Relieved Tapered Head Cutters

- *Diagonal cutting pliers*
- *Relieved tapered head flush cutter*
- *Allows use between closely spaced components*
- *Green cushion grips* *S-TMS543J* *$15.95*

Xcelite 5" General Purpose Shearcutters

- *Low profile, general purpose cutter*
- *Flush cuts soft wire up to 20 AWG (0.8 mm)*
- *Superior blade by-pass shear cutting action*
- *Greatly reduced mechanical shock delivered to the work*
- *Light blue grips* *S-T170M* *$5.25*

Xcelite 5" 60° Curved Needle Nose Pliers

- *Thin tip*
- *Smooth jaws*
- *Green cushion grips* *S-TCN255* *$18.95*

Xcelite 5.5" Serrated Jaw Pliers

- *Thin profile long reach pliers for access into tight spaces*
- *Lightweight for maximum comfort*
- *Light blue grips* *S-T378M* *$9.25*

Xcelite 6" Long Needle Nose Pliers

- *Extra long nose*
- *Serrated jaws*
- *Green cushion grips* *S-TNN7776* *$16.95*

Test Lead Kit (Mil Spec)

Contains:
Two alligator clips, two spade lugs, two pin jacks (long), two pin jacks (short), two probe tips, two tip insulators and two universal test jacks.
All included with threaded ends (male). Also contains two 54" leads with threaded ends (female). All "rolled up" in a convenient pouch. Sealed in foil military package. The ultimate set of test leads!

S-Z5R542 $14.95

Test Leads

Phono needle test leads with miniature banana plugs. 24 AWG, 36", dual leads

W-HHS-1341 $4.95

Jumper Wire Set

Heavy duty test leads 22" long with insulated alligator clips. Contains one each of black, red, white, green and yellow jumpers. Set of five.

S-ZJ4-655 $6.25

Resistance Wheel

Rotate dial to select resistor for best circuit operation. Uses 1/4 watt 5% resistors covering 5 ohms to 1 megaohm. With insulated alligator clips.

S-Z20-104 $21.95

Erem High Precision 4.75" Tweezers

- Stainless steel
- Anti-Magnetic
- Flat, round tip

S-T2ASA $3.35

Erem High Precision 4.5" Tweezers

- Stainless Steel
- Anti-magnetic
- Super fine tip

S-T5SA $3.35

Erem High Precision Curved 4.75" Tweezers

- Stainless Steel
- Curved for easy manipulation in confined areas
- Precision Point

S-T7SA $3.35

Xcelite Seizer Forceps

- Clamps firmly to hold wires for soldering
- Acts as a heat sink and retrieves small parts from hard to reach places
- Precision machined tempered stainless steel
- Serrated jaws

S-T42H $6.75

11 Function Multi-Purpose Tool

Clamp, AWG 22-10 Wire Stripper, 0-3mm wire loop, Soft wire cutter (Cu, Al), Bolt cutter, 4-40 to 10-32, Steel wire cutter, 0-3mm, Insulated terminal crimp, 10-22 AWG, Non-insulated terminal crimp, 10-22 AWG, Solid wire cutter, Ignition terminal crimp, Flag terminal crimp

S-T203 $8.50

Shaft Wrench

Specially designed offset double end wrench for most hex sizes encountered in electronic construction.

5/16" and 3/8"	W-HHS-998	$1.00
9/16" and 1/2"	W-HHS-999	1.00

Alignment Tools

Professional tool made of Tenite, 5 1/8" long shaft, 3/8" diameter with tapered ends.

S-T8609 $2.25

Hex tool, 5 1/4" long, .1" hex end, .075" flat end.

S-T9303 .75

Double End Hex Tool While Supplies Last!

Molded from Delrin, 5 3/32" long. Ends are .125 hex with .10" wide by .02" thick plastic screw driver on one end.

S-T9091 $1.75

Same as above, but with .100" hex.

S-T702 1.95

Duplex Aligner

Butyrate shaft 6 1/8" long with 1/8" wide steel tips. Tip on one end recessed.

S-T8276 $2.25

3-in-1 Hex Core Tool

Molded from Celcon, 5 1/16" long. Stepped hex .078" to .100". Undercut end .100" hex to reach bottom slug in coils.

S-T9302 $1.95

Hex Tool

0.75" Hex on each end of tool.

S-T704 $0.95

Alignment Tool Kit

Contains five different tools for all standard adjustments. Includes "Extend-It" for long reaches. Tools are Delrin packaged in pocket-saver pouch. Tools are: 8282 Zenith type, 8606 Hex wrench, 9091 Hex core tool, 9304 double end tool.

S-T8454 $6.95

Nylon Alignment Tool Kit

Assorted hex and flat tools for alignment work.

S-T9304 $1.25

Alignment Tool Kit, CB

Contains 5009 Duplex no-metal screwdriver, 5097 K-tran tool, 8271 core aligner, 8282 Zenith alignment tool, 9091 hex iron core tool, 9440 transistor tool, 8276 Duplex aligner and 9304 double end tool.

S-T18-530 $10.95

Contact Burnishing Tool

Stainless steel strip, microscored to an ultra-fine file surface. Remove oxide and corrosion on contacts made of platinum, paladium, molybdenum, gold, tungsten and silver.

S-T9338 $1.95

Nicholson Hobby Assorted File Set

- Selection of 6 miniature files with fine cut for intricate work
- Includes vinyl case
- Ideal for handicrafts and hobbies

S-T42030 $26.95

Panel Meters

80mm wide x 64 mm high (~3 1/8" x 2 1/2") white face. Fits in 2 3/8" round panel cut out. 2 1/2% accuracy.

Range	Part #	Price
0-100 uA DC	S-PMD100UA	$9.95
0-1 mA DC	S-PMD1MA	9.95
0-100 mA DC	S-PMD100MA	9.95
0-1 A DC	S-PMD1A	7.95
0-10 V DC	S-PMD10V	9.95
0-100 V DC	S-PMD100V	9.95
0-150 V AC	S-PMA150V	9.95

RF Signal Generator

Compact solid state RF signal generator designed for the hobbyist, service bench and technical instruction. The generator is most suited for checking and aligning the IF circuit and tuners in AM, FM, and TVs. 100KHz to 150MHz in 6 bands and up to 450MHz on third harmonics. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.

Features:
- *Wide frequency range - 100KHz to 150MHz*
- *With 1 KHz oscillator purpose of modulation*
- *High stability*
- *Output control - 0dB/-20dB/-40dB and fine adjuster*
- *Frequency accuracy - ± 5%*
- *RF output - 100mV rms appx (up to 35MHz unloaded)*
- *Output control - High-low switch, fine adjust*
- *Audio output 1KHz min., 2V rms*
- *Modulation - Internal - 1KHz (AM) 30% appx. - External - 50Hz ~ 20KHZ at < 1V rms input*

S-MRFGEN $159.95

Audio Generator

The oscillation frequency range of this audio generator is between voice frequency band and super voice frequency band. Its main function is to measure the characteristics of an audio circuit. Square and sine wave. 10K ohm input impedance, 10V rms maximum input voltage. 600 ohm output impedance. Equipped with synchronized input terminals, enabling the high power output signals to be accurately controlled by small signals. Comes with test lead and ground lead. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.

Features:
- *High frequency stability: within ± 2Hz*
- *Frequency range - 10Hz ~ 1MHz, 5 decade bands*
- *Accuracy - 10Hz ~ 1MHz - ±5% + 2Hz*
- *Output control - 0dB/-20dB/-40dB and fine adjuster 100Hz ~ 100KHz ±3% + 3Hz*
- *Output Voltage Floating: within ±1.5dB*

Sine Wave Output	Square Wave Output
Range - 10Hz ~ 1MHz	10Hz ~ 100KHz
Output voltage- 8V rms max.	15V p-p
Output distortion- < 0.05% - 500Hz ~ 50KHz	< 0.5% - 50Hz 500KHz

S-MAFGEN $159.95

Capacitor Tester

This audible capacitor checker is designed to make capacitor testing fast and easy. Allows you to check for bad or leaking capacitors without removing capacitor from circuit, although you must disconnect one lead. (Cap must be discharged) Audible tone allows you to determine if capacitor is good, shorted or leaking. Can also be used to check diodes. Made in USA. 0.4 lbs.

While Supplies Last! S-ZTIF660 $37.95

Signal Tracer/Injector

Handy, easy-to-operate versatile instrument with dual power source (9V battery or AC adapter). Two red LEDs on front panel indicate the mode of operation. Ideal for servicing on TV, AM and audio circuitry, plus checking of speakers, microphones and pick-ups. 100 µA meter, 2 1/4" speaker 7.8" W x 5.5" H x 3.9" D. 3 lbs.

Features: Tracer Portion
- *Gain - Max. 60dB at 1KHz*
- *Attenuation: 0-20-40-60 dB*
- *Input impedance: 100K ohms*
- *RF output: 100mV rms appx (up to 35MHz unloaded)*
- *Output impedance: Output - 600 ohms (unbalanced) - External speaker - 8 ohms*

Features: Injector Portion
- *Frequency: appx. 1KHz square wave form*
- *Output level: 4.5V p-p max., 0 - 4.5 continuously variable*

3 lbs S-MSIGTR $139.95

General Purpose VOM with Multifunction

- *± 0.4% DC Accuracy*
- *Fuse & Diode Protection*
- *Continuity Buzzer*
- *500V AC/DC*
- *AC/DC Input Impedance 4K ohm/Volts*

0.3 lbs

S-Z14A $19.95

Digital Multimeter

Ergonomically Designed. Uses one 9V battery, included.
- *0.5% basic DC accuracy*
- *3 1/2 digit LCD, 0.625" high*
- *1.5" x 3" x 7.5" (w/o case)*
- *capacitance to 20 mFD*
- *frequency to 10 MHz*
- *10 A (AC 0r DC)*
- *h_{FE} and diode test*
- *audible continuity test*
- *10M ohm input resistance*
- *overload protection*
- *polarity indicator*
- *over range indicator*
- *low battery indicator*
- *tilt stand and case*

1.6 lbs S-Z3220 $49.95

Digital Capacitance Meter

Nine ranges give precision readings from .1pF to 20,000mFD. Can be used to check virtually all capacitors for tolerance value, selecting matched sets, etc.
- *0.1 pf to 20,000 mF, 9 ranges*
- *0.5% basic accuracy*
- *3 1/2 digit LCD, 1" h x 2 1/4" w*
- *Zero adjustment*
- *Input protected*
- *Low battery indicator*
- *Over range indicator*
- *Tilt stand*
- *1.5" x 2.8" x 6"*
- *Includes, case, leads, battery, spare fuse and instructions.*

1.1 lbs S-Z150 $59.95

Bias King™ & Bias King Pro™

A digital readout for real world analog measurements. As tubes age, their bias point will shift. By using the Bias King™, you can maintain the sound you want by periodically adjusting the bias on your amp. This will keep your tubes in top shape throughout their life and will keep your amp sounding its best. Use the chart provided to find out what range of current flow is acceptable for the tube type in your amp. It works on most octal socket tube amps, and requires no power source other than the amp it is plugged in to. It can be used to "match" tubes into pairs. Two models are available:

Bias King™ Features one tube socket enabling you to check the bias of your tubes one tube at a time. S-TBKING $119.95

Bias King Pro™ Two sockets allow you to switch between two tube readouts without having to unplug tubes. S-TBKINGPRO 189.95

Telegraph Key

High quality, gold plated brass keys on olive wood base. Handles and knobs are teak. Imported from Spain, perfect gift for the HAM in your life! Lambic paddle keyer. Base is 5" x 3¼"

G-KEY2 $69.00

Nipper Swag

Nipper image printed on the front of the garment. While Supplies Last!

T-Shirts

White, size XL	G-730XL	$14.95
Red, size Large	G-731L	16.95
Red, size XL	G-731XL	16.95
Black, size Large	G-732L	16.95

Sweatshirts

White, size Large	G-735L	$19.95
White, size XL	G-735XL	19.95

6L6 T-shirt

High Quality 100% preshrunk cotton. Gray with black letters, Printed on the front of the shirt.

XL only G-801XL $16.95

Zenith T-shirt

White with black logo. Front printed.

Large	G-816L	$18.95
XL	G-816XL	18.95

Crystal Rocket Radio

The original Rocket Radio was first offered in the late 1950s and now it's back! A fun way to learn about radios and how they work. Suggested for ages 8 & up. Includes: Rocket with tuning rod nose cone, crystal earphone, and antenna lead with clip.

K-439 $10.95

Coffee Mugs

Nipper 12 oz G-435 $8.95

Antique Electronic Supply "Tube Dude" Logo. 11 oz

G-821 $4.95

Electronic Color Code Chart Poster

25" x 38" B-P104 $8.95

Antique Electronic Supply Workbench Poster

24" x 36" B-P102 $4.95

JJ Electronic Rocket Launch Poster

24" x 36" B-P106 $3.00

Banks

9" Tall G-746B $29.95

Nipper Dog Magnet

2" x 3"

While Supplies Last! G-M80 $3.95

Nipper Dog Salt & Pepper Shakers

G-147 $14.95

We Have Gift Certificates!

Are you looking for the perfect gift for your hobbyist friend, but aren't quite sure about the certain item they need? How about an Antique Electronic Supply gift certificate? They are available in any amount over $20.00 and are good for one year after the issue date. I-200 $___.__

Redeemable by mail or at our store only!

Fresh Stock Energizer Batteries

Advanced formula Alkaline Batteries. Unsurpassed performance in high tech devices. It keeps going, and going, and going...

Four pack of AA batteries	S-Z4AA	$3.50
Two pack of 9 Volt batteries	S-Z29V	5.45
Four pack of C batteries	S-Z4C	5.50
Four pack of D batteries	S-Z4D	5.50
Four pack of AAA batteries	S-Z4AAA	3.75

We have an extensive selection of books, literature, videos and software dealing with vacuum tubes, radio collecting, guitar, audio and electronic instruction. For any "B"- only (Any part number beginning with the letter B) order of $20.00 or more, we will waive the $2.50 handling fee. Also, ask about our damaged books. We have some titles with slight damage which we offer at 20% below prices shown in the catalog.

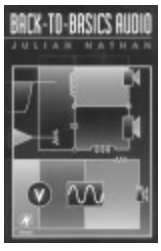
Plastic Bags Protect Valuable Literature
9" x 12" .0015 gauge clear flat plastic bags are ideal for protecting and displaying early magazines, pamphlets, booklets, literature etc. Package of 100 bags.
S-B703 $6.95

Audio

An Approach to Audio Frequency Amplifier Design
First published in 1957 by the Valves and Electronics Department of General Electric Company of England, this book covers the essential details and circuit diagrams of a wide range of audio frequency amplifiers from a 5 watt ultra-linear to an 1100 watt Class AB2 amplifier. All designs are based on vacuum tubes. Full parts list accompanies each schematic. 126 pgs, 0.6 lb 6" x 9"
B-679 $19.95

Audio Measurements
By Norman H. Crowhurst
This book begins with measurement techniques and follows with a full discussion of all manner of test equipment. Although it deals with the equipment of the day, most based on vacuum tubes, much of that equipment is still available. Fully indexed, the book is a comprehensive and informative volume on determining the quality and performance level of almost any piece of audio equipment. 223 pgs, 1 lb 5.25" x 8.25"
B-814 $12.95

Audio Reality
By Bruce Rozenblit
There are 6 projects in this book that you can build. Contains complete schematics, parts lists and circuit explanations. All design techniques are revealed. In addition the author shares tips and procedures for working with sheet metal and wiring. Projects include: the patented Transcendent OTL in both 25 and 80 watt version, the grounded grid preamp, the super compact 150 watt amp, the cathode follower single-ended amp, and a new phono preamp design. This book has sections on conductors, connectors, speaker cables, damping systems, feedback, vacuum tubes and more. 128 pgs, 1 lb 8.5" x 11"
B-818 $29.95



Back-To-Basics Audio
Julian Nathan
A thorough yet approachable handbook on audio theory, practice, and allied electrical systems. Electrical principles are first discussed in easy to understand terms as a basis for understanding audio components and equipment, covered in hands-on style in the rest of the book. Elements of home theater audio and projection are also addressed in practical terms. 344 pgs, 1.5 lbs 6" x 9.25"
Blowout Price! While Supplies Last!
B-806 $24.95

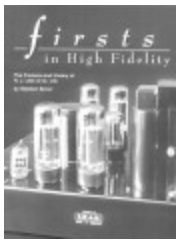
Books Sub-Index

Audio	*89-90*	*Technical*	*101-105*
Crystal Sets	*91-92*	*Telephone, TV, Clocks*	*106*
Guitar & Guitar Amps	*92-95*	*Vacuum Tubes*	*106-108*
Ham Radio	*95-97*	*Videos*	*108*
Loudspeakers	*97*	*VTV*	*109*
Phonographs	*97-98*		
Radio Collecting	*98-101*	*Software*	*110-111*

Beginner's Guide to Audio Design
By Bruce Rozenblit
Are you interested in tube audio but don't know where to start, or are you already using tubes but don't know what's going on in the circuit? Rozenblit describes with simple clear explanations what a tube is, how it works, how to read characteristic curves and understand specifications. He then discusses one stage amplifiers, gain circuits, negative feedback, power supplies as well as a tour of amplifier parts of all types. 132 pgs, 1.0 lb 8.5" x 11"
B-761 $24.95

The Brute: A Super Amplifier for the Do-It-Yourselfer Perfectionist
By Edward T. Dell
Reprinted by Audio Amateur Corp. from a 1966 Stereophile article. Describes the construction of a tube type amplifier which is the deluxe version of a Dynaco Stereo 70. This is the ultimate project either for learning or improving construction skills, and acquiring a knowledge of amplifiers through hands-on experience. The amplifier itself is supported by a massive power supply, equipped with metering capabilities for all voltages, and constructed with quality components. The result is a powerful high-end amplifier at a reasonable cost. NOTE! Some parts may be difficult to find. 11 pgs, 1 lb 8.5" x 11"
B-789 $7.95

Evolution of the Audio Recorder
By Phil van Praag
Finally, a comprehensive guide to the audio recorder, this book explains the mysteries and tracks the evolution of the audio recorder. Provides repair and restoration guidelines, buying tips, identification criteria and pricing guidelines. Covers over 125 brand names, with over 500 photos and illustrations. The definitive guide to vintage wire and tape recorders. 500 pgs, 1.1 lb 5.5" x 8.5"
B-759 $39.95



Firsts in High Fidelity
By Stephen Spicer
This book is the unique and comprehensive story about one of the world's best high-fidelity audio companies - H.J. Leak & Co. Ltd. The reader is presented with a stunning collection of delights, through a lucid extensively researched text, accompanied by over 300 photographs many of which have been supplied from personal collections. A must for any audiophile is this compendium of 30 circuit diagrams for the classic designs of the day, including some of the rarest model amplifiers and radio tuners produced by the company. This invaluable resource is presented in conjunction with detailed technical information on previously undocumented design variations.
275 pgs 1.8 lbs 7.75" x 10.5"
B-873 $24.95

The LP is Back!

From the pgs of Audio Amateur magazine and other sources, absolutely everything the serious LP music collector needs to get the most out of both vintage records and the highest quality new pressings. Articles cover: Cleaning discs; how to build a cleaning machine; calibrating and maintaining your tonearm and cartridge; equipment which will improve the quality of long play record listening. Collected from the high point of this old-new again technology, The LP is Back! brings a wealth of information to help you keep your equipment in top form and help you understand and appreciate the best in new products available from cartridges to turntables. 160 pgs, 1 lb 8" x 10.5"

B-823 $12.95

Mullard Circuits for Audio Amplifiers

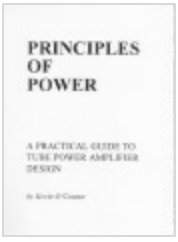
A reprint of a 1959 publication of Mullard Ltd., detailing high-quality circuits for audio amplifiers, pre-amplifiers and other stereophonic reproduction equipment. These designs were originated by Mullard engineers at the Mullard Applications Research Laboratory, and originally appeared in various magazine articles with notes on construction and assembly. 136 pgs, 1.0 lb 8" x 10"

B-655 $16.95

Power Amp Projects: 26 Articles on Power Amplifier Projects Appearing in Audio Amateur Magazine from 1970-1989

Re-printed articles on amplifiers for the home (both tube and solid state), amplifiers for a car and even an electrostatic speaker system. Original designs as well as upgrades to older equipment. Article authors include Roger Sanders, Nelson Pass, Reg Williams, Erno Borbely and more. Altogether this book offers designs from authors from six countries to fit almost any need for the resourceful amateur who prefers the pleasure of building his or her own. 201 pgs, 1.1 lbs 8.5" x 11"

B-754 $19.95



Principles of Power
A Practical Guide to Tube Power Amplifier Design

By Kevin O'Connor

Offers a simplified method for designing tube power amps for audio. Tube operation is explained, as are circuit principles. Class-A or B, cathode, fixed bias, and push-pull and single-ended designs are covered, as are many front-end circuits. Includes designs using off-the-shelf transformers and current production tubes. Power outputs of 15 to 400W are depicted using pentodes and true triodes. Also, covers power supplies, selected tube data, and information on Hammond and Plitron transformers. 210 schematics. 221 pgs, 1.7 lbs 9" x 11"

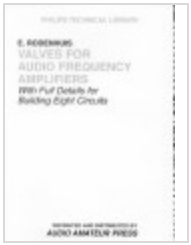
B-726 $39.95

Valve Amplifiers, Second Edition

By Morgan Jones

Builds on the strength of the first edition; do-it yourself basics, circuit analysis, theory, design principles, construction techniques, etc. This expanded edition has new sections on output transformer problems and heater regulators, and three new projects, including a low-noise singled-ended LP stage. 488 pgs, 2 lbs 6.25" x 9.25"

B-838 $49.95



Valves for Audio Frequency Amplifiers
With Details for Building Eight Circuits

Reprinted from the Philips Technical Library, by Audio Amateur Press. Philips, one of the world's oldest tube manufacturers, offered this manual for enthusiast in 1954. It's a practical volume for building quality audio amplifiers. Topics include; using the operating data provided, feedback, tone control, the output transformer, amplifier input circuits, microphone, gramophone pickups, & loudspeakers. There are pointers to keep control of hum, noise, interference and heat to avoid noisy and destructive operation. 144 pgs, 0.5 lbs 5.75" x 8"

B-779 $16.95

Valve & Transistor Audio Amplifiers

By John Linsley Hood

A look at 50 years of audio amplifier designs with chapters on passive components, negative feedback, power supply, pre-amps etc., in the hope that the information may be of interest to the user or would-be designer. Included is an exploration of some of the residual problems and ways by which they may be lessened. 250 pgs. 1.5 lbs 6.25" x 9.25"

B-868 $42.95

The Williamson Amplifier

By D.T.N. Williamson

In 1947 Williamson began the high fidelity movement with his power amplifier, using high quality push/pull output tubes, a special output transformer and a highly filtered power supply. In the mid–1950's Wireless World published his articles on amplifier, pre-amp and tuner design. This reprint contains data on winding your own transformers, chassis layout diagrams and practical advice on building amplifiers. 37 pgs, 0.3 lb 7.25" x 10"

B-560 $5.95

Vintage Hi-Fi Spotters Guide

By Charles Kittleson

A copy of catalog pgs and advertisements of 1950-1962 vintage Hi-Fi components, providing a valuable resource for identification and information. Includes Fisher, Eico, Heathkit, McIntosh, Scott, Harman-Kardon, Marantz, Pilot, Dynaco, Radio Craftsmen and others. 87 pgs, 0.6 lbs 8.5" x 11"

While Supplies Last! **B-597 $19.95**

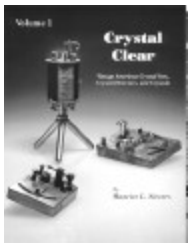
Vintage Hi-Fi Spotters Guide, Vol. 2

By Charles Kittleson

Supplement to above book covering 1925-1963 vintage Hi-Fi components. Includes amplifiers, pre-amps, speakers, phonographs, receivers and other equipment not covered in volume 1. 88 pgs, 0.6 lb 8.5" x 11"

B-639 $19.95

Crystal Sets



Crystal Clear Vol. 1 Vintage American Crystal Sets, Crystal Detectors and Crystals

By Maurice L. Sievers

A comprehensive guide to crystal sets, detectors and crystals produced in the United States from 1920 to 1955. Lists over 500 crystal sets and 330 detectors made by over 400 different companies. Includes over 400 photos of early sets, plus hundreds of advertisements. 282 pgs, 2.2 lbs 8.5" x 11"

B-568 *$29.95*

Crystal Clear, Vol. 2 Vintage American Crystal Sets, Crystal Detectors and Crystals

By Maurice L. Sievers

A companion to Volume 1. Includes many ads, illustrations and details which would not fit in Volume 1. In addition to many entirely new listings, missing details and a few corrections to listings in Volume 1 are included. 244 pgs, 1.9 lbs 8.5" x 11"

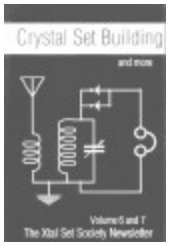
New Lower Price! *B-698* *$24.95*

Crystal Receiving Sets and How to Make Them

Edited by Bernard E. Jones

Deals with the making of a number of crystal sets representative of those in present-day use. Compiled from the pgs of "Amateur Wireless," the well known weekly journal for wireless amateurs. 133 pgs, 1 lb 5.5" x 8.5"

B-860 *$10.95*

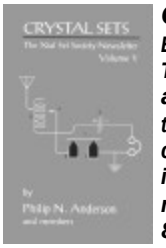


Crystal Set Building and More The Xtal Set Society Newsletter, Vols. 6 & 7

Edited by Rebecca Hewes

Crystal Set Radios? Yes, that's right. Over ninety years since their invention, Xtal sets are still capturing people's attention. Every other month, the Xtal Set Society publishes a newsletter with projects and articles from members. This compilation contains all issues from January 1996 through November 1997. Focus is on simple old - time, elegant radio circuits you can build from scratch, with some circuits and one tubers. 168 pgs, 0.5 lb 6" x 9"

B-797 *$15.95*

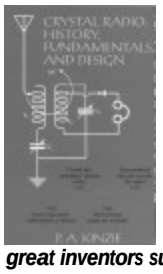


Crystal Sets The Xtal Set Society Newsletter

By Philip N. Anderson & Members

The Xtal Set Society, started in 1991, is dedicated to once again building and experimenting with radio electronics, through the use of the crystal set. This volume contains articles from 6 of the society's newsletters from 1995. Articles include design of unpowered AM receivers using rocks, radio outfit in a headset, Marconi 107-A tuner and more. 88 pgs, 0.3 lb 5.5" x 8.5"

B-717 *$11.95*



Crystal Radio History, Fundamentals and Design

By P.A. Kinzie

Published by the Xtal Set Society, this book chronicles the fascinating history and development of the crystal detector, including the reasons for its brief dominance of the radio market after the turn of the century. Starting with the discovery of solid-state rectification and then through the development of the crystal detector the reader learns about great inventors such as Pickard, Braun, Dunwoody and others. Radio fundamentals such as antennas, ground, lightning protection, tuned circuits, and detection are covered for the beginner. The unending compromise between selectivity and sensitivity is discussed for the crystal set designer. Advanced topics such as the use of multi-tuned circuits and wave traps follow for the more experienced experimenter. 119 pgs, 0.3 lb 5.25" x 8.5"

B-729 *$12.95*

The Crystal Set Handbook

By Philip N. Anderson

A practical "how-to" book of crystal radio construction. Contains a simple oat box project, formulas for coil inductance and coil Q, a procedure for measuring coil capacitance and theory for L-C circuit matching. 130 pgs, 0.5 lb 5.25" x 8.25"

B-673 *$11.95*

Crystal Set Projects: 15 Radio Projects You Can Build

Edited By The Xtal Set Society

A collection of 15 radio projects designed by members of the Xtal Set Society. Includes high tech and low tech, vintage and modern, loop antennas and short-wave bands. Great weekend or evening projects. Step back to the roots of radio. 160 pgs, 0.5 lb 6" x 9"

B-757 *$14.95*

Crystal Set Loopers, A 3 Tuber & More, Vol. 8

Edited By The Xtal Set Society

The biggest and best volume yet of the Society Newsletter. Has complete directions for building 5 crystal radios, a 3 tube radio and a homebrew variocoupler. Learn about biasing effects on diode performance and crystal detector experiments. Discover crystal set secrets by reading letters from members all over the world. This book continues to focus on simple, old-time, elegant radio circuits. Includes projects you can build, schematics, radio secrets and theory articles. Build a Short-wave looper, Antenna Tuner/AM trap, a Crystal Set from a deodorant stick and more. 128 pgs, 1 lb 6" x 9"

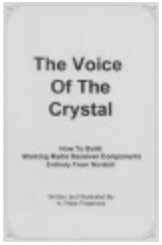
B-819 *$15.95*

Radios That Work for Free

By K.E. Edwards

An experimenters handbook on crystal radios, this book includes instructions and theory for building many different crystal radio circuits. 140 pgs, 0.5 lb 5.5" x 8"

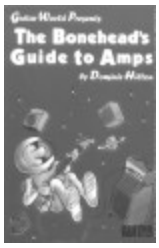
B-341 *$12.95*



The Voice of the Crystal
By H. Peter Friedrichs

How to build working radio receiver components entirely from scratch. Contains basic theory of crystal radio operation including description of simple headphones, characteristics of a good detector, capacitor characteristics, coil designs, simple tuners and antennas.
183 pgs, 0.5 lb 5.5" x 8.5"

B-851 $14.95



The Bonehead's Guide to Amps
By Dominic Hilton

Presented by Guitar World Magazine. The ultimate book for everyone who wants a quick and easy to understand guide to amplifiers. You'll find out about: The history of amps, construction and how amps work; different types of amps, the sounds they make and how to use them; which amp is right for you; new vs. used amps and what to look for when buying an amp; tips and recommendations on how to get the most out of your amp. 78 pgs, 0.5 lb 6" x 9"

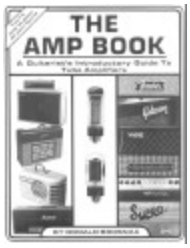
B-854 $9.95

Guitar & Guitar Amps

50 Years of Fender
By Tony Bacon

Fender is the most successful modern maker of electric guitars, and recently marked the 50th anniversary of its first instrument. This new book tells the complete year-by-year story of Fender's development from 1950 to 2000 accompanied by stunning photographs of players, instruments and memorabilia. 50 Years of Fender is a beautiful, detailed examination of five decades of great guitars and the fine music they inspire. 128 pgs, 1.5 lbs
Full Color 8.5" x 11"

B-870 $19.95



The Amp Book: A Guitarists Introductory Guide to Tube Amplifiers
By Donald Brosnac

Covers what an amp is, how an amp works and what to look for in an amp. Includes history of tube amps from 1932 to the present with de-tailed information on the evolution of amps both internally and externally. Fender, Gibson, Gretsch, Vox, Ampeg as well as others are covered. 64 pgs, 0.6 lb 8.5" x 11"

B-688 $11.95

The Art of the Amplifier
By Michael Doyle

Pays tribute to the history and beauty of generations of amplifiers with nearly 200 stunning full color photos. Coverage of Ampeg, Fender, Marshall, Mesa Boogie, Orange, Selmer, Soldano, Vox and others.
80 pgs, 0.8 lb 9" x 12"

B-855 $22.95

Beatles Gear
By Andy Babiuk

This book details exactly which guitars, drums, amps and keyboards the Beatles used at key points in their relatively brief but entirely revolutionary career - from the formation of The Quarry Men skiffle group to the dissolution of the Beatles in 1970. Fully illustrated and with many stories told for the first time, this book is a must for every music or Beatles fan!
Hardcover. 256 pgs 3.9 lbs. 10" x 13"

B-890 $39.95

The BOSS Book

The ultimate guide to the world's most popular compact effects for guitars. Included: Complete detail and story on every BOSS compact ever made, photos, design history, trivia, tricks, secrets and more, candid interviews with the BOSS founder and design engineers, essays on musical trends and famous players, a CD ROM featuring 72 guitar sounds with control settings and detailed equipment set-ups to take your playing to a whole new dimension. 121 pgs 1.0 lbs. 8.5" x 11"

B-889 $19.95

Complete Guide to Guitar and Amp Maintenance- A Practical Manual for Every Guitar Player
By Ritchie Flieger

From the author of "AMPS!" comes an essential survival guide for every guitar player and amp owner. Packed with concise, clearly written tips on troubleshooting and repairs, with straightforward, step-by-step instructions using readily available tools. Contains over 150 photos.
80 pgs, 0.6 lb 9" x 12"

B-701 $14.95

Dave Funk's Tube Amp Workbook Complete Guide to Vintage Tube Amplifiers Vol. 1
By Dave Funk

A large, easy to read tube amp book, designed to be an invaluable reference to those working on or building their own tube amps. Learn how to approach a service job, the tools you'll need on your workbench, and how to use them. Loaded with cross-reference material, lookup tables, formulas and the information you'll need to know when your amp is working properly.
421 pgs, 2.5 lbs 11" x 8.25"

B-732 $38.95

A Desktop Reference of Hip Vintage Guitar Amps
By Gerald Weber, owner of Kendrick Amplifiers

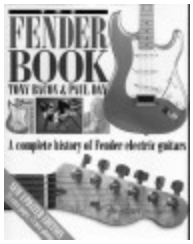
He answers questions about vintage guitar amplifiers on topics such as biasing for output tubes and easy modifications. He includes an analysis of Fender classics such as the Tweed Champ, Tweed Deluxe, Deluxe Reverb, Super Reverb and others. Also included are schematics for Ampeg, Fender, Gibson, Hiwatt, Magnatone, Marshall, Rickenbacker, Silvertone and Vox amps. 500 pgs, 1.5 lbs 6" x 9"

B-663 $29.95

The Fender Amp Book
By John Morrish

A full descriptive history of Fender's Classic instrument amplifiers from the 1940's to the 1990's. Including color photographs and technical specifications for all the most collectable models.
Hardcover 96 pgs 0.6 lb 4.75" x 9.25"

B-705 $17.95



The Fender Book
By Tony Bacon & Paul Day

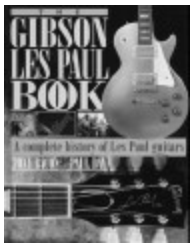
A complete history of Fender Electric Guitars
This totally revised edition of The Fender Book tells the complete story of the world's best-known electric guitar maker, from the birth of fifties classics like the Stratocaster and Telecaster, through the purchase of Fender by CBS, and on to such recent developments as the establishment of the Custom Shop. Dozens of unique photos bear witness to the skill of Fender's designers and the appeal of these instruments to virtually every famous electric guitarist. A meticulous reference section completes what one reviewer of the first edition described as "the bible of Fender guitars." Hardcover 120 pgs 0.3 lbs 7.75" x 10.75"

B-895 $23.95

The Fender Bass
By Klaus Blasquiz

The Fender Bass, invented over 40 years ago by the creative genius of Leo Fender still remains the most sought after electric bass. Before the invention of the Fender, there was no electric bass at all! Leo's design was so definitive that it soon became a classic, an essential element in creating the sound of modern music. Every new bass that comes on the market is more or less modeled on Leo's design. Fender Bass tells the detailed story of the development of the Electric Bass by describing the different models and their improvements from the original instrument up through its present form.
47 pgs 0.5 lbs 9" x 12"

B-874 $9.95



The Gibson Les Paul Book
A complete history of Les Paul guitars
By Tony Bacon and Paul Day

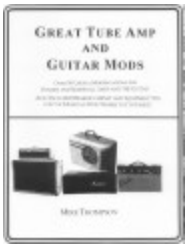
Until now, no single book has documented the fascinating development of Gibson's Les Paul guitars. This book examines the original collaboration between the traditional Gibson company and the brilliant musician Les Paul. The Gibson Les Paul Book is the first wide-ranging study of these important models. It explains and describes the guitars of the 1980's and 1990's as well as the classic early Les Pauls, and analyzes the circumstances which led to the often criticized models of the 1970's. Includes fresh interviews as well as full color photographs of both the guitars and rare memorabilia. Also contains a comprehensive reference section listing in detail every model from 1952-1993 plus information for identification and dating.
Hardcover 96 pgs 1.0 lbs 7.5" x 9.75"

B-894 $21.95

The Guitar F/X Cookbook & CD ROM
By Chris Amelar

The ultimate source for guitar tricks, effects, and other unorthodox techniques. This book demonstrates and explains 45 incredible guitar sounds using common stomp boxes and a few unique techniques! Fully Illustrated. 55 pgs 0.6 lbs 9" x 12"

B-888 $14.95



Great Tube Amp and Guitar Mods
By Mike Thompson

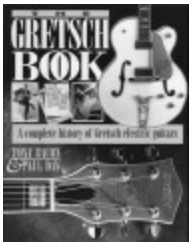
Over 50 useful modifications for Fender and Marshall amps and the guitar. The author lets reader in on some neat little tricks that can be done to their equipment. All modifications are simple and can be done with easy to find parts. Also includes speaker cabinet and equipment tips for the musician who wishes to customize.
150 pgs, 1.1 lbs 8.5" x 11"

B-737 $12.95

Guitar Player Repair Guide
How to Set Up, Maintain, and Repair Electrics and Acoustics
By Dan Erlewine

This revised edition is a step-by-step manual to maintaining and repairing electric or acoustic guitars and basses. Players will master the basic maintenance and set up of a guitar. An advanced crafts-person will discover this to be a valuable reference source for complex procedures such as replacing nuts and frets. This second edition incorporates new techniques and tools, plus detailed repair information for specific models. 309 pgs, 2.0 lbs 8.5" x 11"

B-784 $22.95



The Gretsch Book
By Tony Bacon & Paul Day

A complete history of Gretsch electric guitars
The Gretsch Book pulls together the fascinating story of this American guitar manufacturer, highlighting links with key guitarists such as George Harrison, Duane Eddy and Chet Atkins. These three most famous of Gretsch players have their guitars pictured among over 70 sensational photographs of rare and unusual instruments that help The Gretsch Book illuminate the history of this characterful, eye-catching and idiosyncratic guitar maker. Original interviews with many Gretsch personnel add to a unique tour of the company's remarkably varied and colorful history, as The Gretsch Book practically and entertainingly clarifies this much misunderstood and wonderfully inventive guitar maker.
Hardcover 108 pgs 1.1 lb 7.75" x 10.75"

B-893 $23.95

The Hammond Organ Beauty in the B
The Story of the B-3 and Other Great Hammond Organs, Plus the Leslie Speaker, and much more
By Mark Vail

This book celebrates the history and influence of the Hammond B-3 and its right-hand man, Leslie Speaker. It explains the tone-wheel system that renders the famous Hammond sound, and reveals secrets behind the B-3's drawbars, presets, pedalboard, percussion, and other unique features. Also features "25 licks you must know," plus tips from the masters of the B-3. 239 pgs, 1.5 lbs 8.25" x 10.75"

B-788 $24.95

The High Performance Marshall Handbook
A Guide to Great Marshall Amplifier Sounds

By John Boehnlein

Includes chapters on standard amplifiers from 1962 to 1990, retubing for maximum performance, how to overdrive master volume and much more.

55 pgs, 0.5 lbs 8.5" x 11"

New Lower Price! **B-696** **$14.95**

The History of Marshall

By Michael Doyle

The definitive account of the guitar manufacturer known as the "sound of rock." Includes complete listings of every product Marshall ever made, over 100 schematics, the history of the Celestion speaker and early catalog reprints. Hundreds of photographs, including 64 color plates. 254 pgs, 2.1 lbs 9" x 12"

B-661 **$32.95**

How to Service Your Own Tube Amp

By Tom Mitchell

A well organized and easy-to-understand approach to guitar amplifier repair covering basic electronics, reading schematics, understanding tubes and transformers, tube biasing and use of test equipment. Also provides 10 troubleshooting flowcharts, voltage charts for typical amplifiers, and many modifications that you can do yourself. Same as B-V578 but without video cassette. 250 pgs, 2.3 lbs 8.5" x 11"

B-707 **$29.95**

Inside Tube Amps The Book on Tube Amps

By Dan Torres

This book is written for musicians, not technicians. This book will help you get your personal sonic signature, and give you the knowledge to change it when your tastes change. Some approaches are new and experimental, some are very old. Looks at "standard practices" as well as tricks and techniques outside of the "perfect specs". 310 pgs, 1.9 lbs 8.5" x 11"

B-733 **$34.95**

The Player's Guide to Guitar Maintenance

By Dave Burrluck

Guitarists who play a modern electric guitar can't expect it to be perfectly matched to their own playing style. This new real-world book acknowledges that crucial fact, and in a non-technical way shows exactly how to improve things, with sequences of large photographs and clear, concise text. You won't get bogged down in complicated repair work. Instead, this book offers simple and straightforward advice and sets realistic targets for understanding and improving every electric guitar. If you want to uncover the true potential of your instrument, then look no further. This is the guide you'll always want by your side.Hardcover 84 pgs 1.7 lbs 8.75" x 11.5"

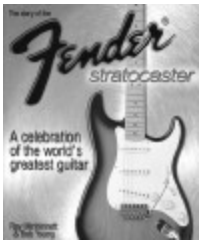
B-896 **$23.95**

Projects for Guitarists
How to Set Up, Maintain, and Repair Electrics and Acoustics

This is a collection of 35 useful, inexpensive educational projects designed by Guitar Player magazine consulting editor Craig Anderton. Whether you're looking for a great sounding tube pre-amp, a de-hisser for your vintage effects, cool guitar rewirings, a fatter sound, a cord tester that catches intermittent problems, some adapters to interface with studio gear, or any of several other problem - solving or sound improving devices, this book has the answers. It also includes chapters on how to read schematics, and construction tips.

171 pgs, 1 lb 8.5" x 11"

While Supplies Last! **B-787** **$19.95**



The Story of the Fender Stratocaster

By Ray Minhinnett & Bob Young

A celebration of the world's greatest guitar

The Guitars- From the birth of the Strat to the nineties, this is a complete, fully-illustrated design and technical history of the world's favorite guitar.

The Players- It's the Strats legion of devotees that keeps the appeal alive, and this section features illuminating, exclusive confessions of the special Strat love affair by a host of guitar legends.

The Sound- To finish the story, a look at the music: it's what the Strats all about. With over 120 full color photographs, including specially commissioned shots of original Fender guitars as well as Custom Shop models, this is the best book about the most beautiful guitar of them all.

128 pgs 1.4 lbs 9" x 11"

B-892 **$18.95**

Tonnes of Tone

By Kevin O'Connor

A collection of projects for electric guitar and bass players. Save money by building your own acoustic preamp; build a two-channel tube preamp for guitar, and more. Construct a 15W tube power amp or a true class-A solid state amp. The "experimenters power supply" is excellent for tinkering with tube circuits, containing separate AC heater, DC heater plate and bias supplies. Build a wide range tremolo circuit and an all-tube reverb unit. Circuit operation, construction, & layout guidelines are provided. Every project uses easy to find parts. 105 pgs, 1.0 lb 8.25" x 11"

B-749 **$25.00**

The Tube Amp Book, Edition 4.1

By Aspen Pittman

Newly revised and expanded, the 4.1q Edition contains company histories of guitar amp manufacturers. 460 pgs of schematics for popular amps, tube data on commonly used audio tubes and 50 pgs of "Vintage Fantasy" color pictures of collectible guitars and amps. 765 pgs, 2.1 lbs 5.75" x 8.25"

B-581 **$34.95**

Tube Amp Talk for the Guitarist and Tech

By Gerald Weber

A compilation of articles written for Vintage Guitar magazine from 1993 to 1996. Includes sections with articles on servicing your guitar amp, modifications, and also includes a "Trainwreck" section full of articles written by Ken Fischer for Vintage Guitar. Foreword is written by Billy F. Gibbons. 537 pgs, 2 lbs 6" x 9"

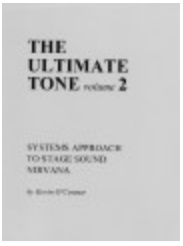
B-773 **$29.95**

The Ultimate Tone Vol. 1
Modifying and Custom Building Tube Guitar Amps

By Kevin O'Connor

Offers the technician or hobbyist information for properly implementing guitar amplifier modifications. Topics include stage setups, amplifier brand surveys, vacuum tube and power supply operation, preamp circuits and master volume, tube type comparison, and effect loops. Includes an extensive discussion of switching methods. Includes data for 17 common tube types and for two Hammond Mfg. transformer model lines. Spiral bound, 395 figures. 368 pgs, 2.5 lbs 8.5" x 11"

B-695 $55.00



The Ultimate Tone Vol. 2
Modifying and Custom Building Tube Guitar Amps

By Kevin O'Connor

The achievement of great, live sound is the premise used to explore modern high-gain guitar pre-amps; proper treatment of acoustic instruments; tube vocal PA's; dynamic bass gear; all types of tube, semi, hybrid and alternative power amplifier design; power supply mods that are "toneful"; simple switching methods; speaker cabinet design; getting the most from effects loops and chains; and, modular stage monitoring systems that work! Circuits are explained so the tinkerer can build or modify guitar equipment with confidence and success. Spiral bound. 200 figures. 250 pgs, 1.9 lbs 8.5" x 11"

B-772 $46.00

The Ultimate Tone Vol. 3
Generations of Tone

By Kevin O'Connor

Have you ever wondered if there is a better way to build a Bassman, Champ, Plexi, AC-30, Bulldog or Portaflex? Or you wanted to build an SVT with off-the-shelf parts? How about a master-volume amp that doesn't change tone with the master setting? Everything you need to know is right here, including: proper grounding techniques, wiring methods, and mechanical considerations. Eighteen chapters cover the "iconic" amps everyone knows and loves, with schematics and layouts for each, along with the technical history of the product. Eyelet-board and chassis-mounted tube socket construction is used throughout, for easy servicing and modding. 360 pgs, spiral bound. 2.2 lbs 8.5" x 11"

B-891 $54.95

Vacuum Tube Guitar and Bass Amplifier Theory

By Tino Zottola

Describes the history and operation of vacuum tubes as well as how they are used in guitar/bass amplifier circuits. Amplifier electrical and physical layout is then examined. The factors affecting amplifier sound are also described. Included in the appendices is useful data such as: resistor and capacitor codes, vacuum tube electrical data, wire gauge table, and musical scale frequency chart. 59 pgs, 0.6 lb 8.5" x 11"

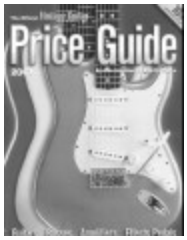
B-735 $14.95

Vacuum Tube Guitar and Bass Amplifier Servicing

By Tino Zottola

Guitar amp repair is split into several categories: User serviceable problems (fixable without chassis removal), dead and strange sounding amps. Includes sections on amp disassembly, preventative maintenance, special effects repair, signal tracing, component testing and replacement, bias adjustment, tube matching and amp mods. It's assumed the reader knows basic electronic theory, reading schematics, and can use tools and test equipment. 84 pgs, 0.8 lb 8.5" x 11"

B-736 $14.95

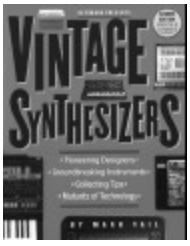


Vintage Guitar Price Guide 2001

By Alan Greenwood & Gil Hembree

10th Anniversary Edition of the VG Price Guide Book. Over 90% of the prices have changed since the last edition. It offers introductory remarks on the brands and models along with historical information on vintage guitars in a fully indexed format. Includes basses, amplifiers and effects pedals. 300pp, 2.5 lbs 8.25" x 10.75"

While Supplies Last! Blow Out Price! **B-865 $9.95**



Vintage Synthesizers

By Mark Vail

Vintage Synthesizers explores the history of the electronic music synthesizer since 1962 and features:

- *In-depth interviews with pioneering synth designers*
- *Histories of select groundbreaking instruments*
- *Tips on finding, buying, restoring, and maintaining vintage synths*

Over 200 color and black-and-white photos

This second edition includes:

- *Fully updated pricing and production information*
- *More resources for support, service, rental and sales*
- *Coverage of Japanese models*
- *Discography of cool synth recordings*

341 pgs 2.2 lbs 8.25" x 11"

B-897 $26.95

Ham Radio, Shortwave, Communications

1934 Official Shortwave Radio Manual

Edited By Hugo Gernsback

A high-quality reprint of Gernsback's 1934 "Complete Experimenter's Set-Building and Servicing Guide," including a "Full Directory of All Short Wave Receivers." Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits.

260 pgs, 1.7 lbs 8.5" x 11"

B-390 $15.95

A Family Affair
The R.L. Drake Story

By John Loughmiller, KB9AT

Here is the behind-the-scenes story of the famous R.L. Drake Company, focusing on the glory days, when Drake was king in amateur radio. Every ham and shortwave listener knew R.L. Drake from the outside, but now the inside story of this incredibly interesting company is told. This book also includes a huge section of useful circuits and modifications for many Drake radios. This 300 page book is both an interesting read and a great technical reference. 288 pgs. 2.1 lbs 8.5" x 10.75"

B-875 $29.95

Amateur Radio: A Beginner's Guide

By J. Douglas Fortune

Written for the beginner in amateur short wave transmission who is having difficulty getting started. It contains enough fundamental theory and detail to construct a first class amateur transmitter in easy stages, along with a reference chapter for quick, detailed reference as needed.

153 pgs. 1 lb 5.5" x 8.5"

B-863 *$9.95*

A Pictoral History of Collins Radio Equipment

By Jay H. Miller

The most comprehensive story of Collins amateur radio equipment told in hundreds of original photographs and in the words of men who made it happen. Includes: Full biography of company founder Arthur A. Collins, Hundreds of photographs, many in color, Early gear, History of SSNB development, More Perfect Communications, On The Air with Collins Radio. 175 pgs plus cover, 1.5 lbs 11" x 8.5"

While Supplies Last! *B-837* *$39.95*

Buying a Used Shortwave Receiver

Buying a Used Shortwave Receiver can provide great savings. This book the information you need to intelligently select the right shortwave receiver at the right price.There is information on the 100 most commonly traded short-wave receivers, including both portable and tabletop models. Coverage, Specs, Features, New Price, Used Price, Photographs. 78 pgs, 0.5 lb 5.5" x 8.5"

B-826 *$5.95*

Communications Receivers, The Vacuum Tube ERA: 4th Ed.

By Raymond S. Moore

Improved from edition 3 with new typesetting, new and improved pictures, extensive revisions and new information with 19 pgs added. 144 pgs. 1.2 lbs 8.5" x 11"

B-771 *$19.95*

Hammarlund Short Wave Manual

Quality reprint of the Hammarlund 1937 Short Wave Manual, contains instructions for building 12 different, 1, 2 and 3 tube short wave receivers, complete with pictures, schematics and parts lists. 32 pgs, 0.3 lb 6" x 9"

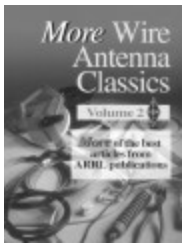
B-519 *$4.95*

Hints & Kinks 15th Edition

Edited by Larry Wolfgang, WR1B
Compiled by Joel Kleinman, N1BKE
and Steve Ford, WB8IMY

QST readers value the monthly "Hints & Kinks" column for its wealth of practical and valuable suggestions contributed by ham tinkerers and experimenters. This 15th edition brings together every item in the Hints & Kinks column from January 1997 through December 1999. You will also find articles from QST's "New Ham Companion" and "The Doctor is IN"- with handy information for hams of all levels of experience. 272 pgs. 2 lbs 8.5" x 11"

B-871 *$12.00*



More Wire Antenna Classics Vol. 2

Compiled By Chuck Hutchinson, K8CH

Filled with innovative designs from the pgs of QST and other ARRL publications. Experience the satisfaction and benefits of building your own wire antennas. More than just creative ideas, these versatile antennas work! If you have the original ARRL's Wire Antenna Classics, you'll want more! 188 pgs, 1 lb 8.25" x 11"

B-866 *$14.00*

The Radio Handbook 1936 For Amateurs and Experimenters

Another terrific reprint from Lindsay Productions, this is Frank C. Jones' 1936 Radio Handbook with more project information than the 1936 ARRL Handbook. Contains schematics, diagrams, tube data, transmitter construction articles, antennas, power supplies, receiver design, etc. If you're a builder, this is for you! 360 pgs, 1.5 lb 6" x 9"

B-843 *$19.95*

Radios by Hallicrafters- Revised and Expanded 2nd Ed. with Price Guide

By Chuck Dachis

This new, complete book covers every known Hallicrafters model and accessory. A comprehensive history of the company is provided, repair methods are discussed, and all the units are pictured and listed in almost 700 photographs. Technical specifications are provided in detail for each one, along with dates of production, customer options, color and design variations, and accompanying power sources and tube types. This book is perfect for anyone interested in the history of radio use and technology, and is absolutely indispensible for Hallicrafter collectors. A current price guide is included, compiled by the past two decades' most avid Hallicrafters collector. 235 pgs, 2.75 lbs 8.5" x 11"

B-832 *$29.95*

Shortwave Receivers Past and Present Communication Receivers 1942-1997, 3rd Ed.

By Fred Osterman

Your comprehensive guide to over 770 short-wave receivers manufactured in the last 55 years. Tabletop, general coverage, amateur, short-wave and specialty receivers are covered. Whether you are a short-wave listener, amateur radio operator or radio collector, here is the information you need in an easy to use format. One hundred short-wave receiver manufacturers from the period of 1942 to 1997 are represented. 473 pgs, 4.0 lbs 8.5" x 11"

B-782 *$24.95*

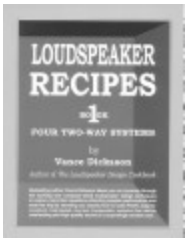
Transmitters Exciters & Power Amplifiers 1930-1980
By Raymond S. Moore
A concise guide to American made HAM radio transmitters and amplifiers of the tube era. Covers kits and commercial transmitters with their original price and list of accessories. Included is a 5 page history of the development of amateur transmitters from original power oscillator types through the later filter SSB exciters and transmitters. 144 pgs, 1.1 lbs 8.25" x 11"
B-725 $21.95

loudSpeakers

Introduction to Loudspeaker Design
By John L. Murphy
For all hobbyists, students and engineers that are interested in an overview of the technology of loudspeakers. Topics include tradeoffs, spatial loading, diffraction loss, cavity effect and enclosure construction. There is also a complete chapter about crossover design. 166 pgs, 1 lb 5.25" x 8.25"
New Lower Price B-811 $22.95
While Supplies Last!

London Power
DIY Speaker Cabinets for Musical Instrument Applications
By Kevin O'Connor
Speaker cabinet design is mysterious to most people, but it doesn't have to be - especially when it comes to speakers for musical instruments. Cabinet evolution is described culminating in Kevin's own designs built by London Power, based on 20+ years of experience and input from expert speaker designers. Resonant and non-resonant cabinets are explored, along with the choice of building materials, finishes, woodworking techniques, installing grill cloth, and the use of wheels and handles. Driver selection and mixing is detailed, covering driver impedance, power ratings and wiring. Dare to design bad tone right out of your life! Spiral bound 77 pgs, 1 lb 5.5" x 8.5"
B-884 $15.00

The Loudspeaker Design Cookbook 6th Edition
By Vance Dickason
Completely revised and updated book represents the standard in loudspeaker design and construction. Includes a home theater project and a chapter on transmission line speaker design. Detailed explorations of new technologies in loudspeaker design and updates on computers in the design and testing process. 295 pgs 2.5 lbs 5.5" x 8.5"
B-862 $39.95

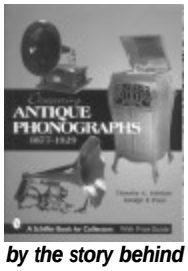


Loudspeaker Recipes, Book 1
By Vance Dickason
Lays a firm groundwork, both theoretical and practical, for building as many varied and successful two-way loudspeakers as you wish. Helps you look for the right driver characteristics to be paired successfully with the right crossover components and also how to fix any anomalies which may trouble your particular choices. This book benefits from the latest techniques for computer-aided design, but is also rich in proven construction practices for building practical systems. 112 pgs, 1 lb 8.5" x 11"
While Supplies Last! B-813 $14.95

Phonographs

Columbia Phonograph Companion, Volume II
By Robert W. Baumbach
This book details the efforts and the accomplishments of the American Graphophone Company and it's successors in the production and marketing of the talking machines marked under the Columbia banner, and variously referred to as Graphophones, Grafonolas or Phonographs. Covers all of the disc playing machines from the first in 1899 through the large and expensive machines of the great heyday of the windup phonograph to the beginning of the great depression. This book is intended to be a guide for collectors of any Columbia disc machine. It provides company history and interesting facts relating to the development of the company, its products and the industry as a whole. Hardcover 257 pgs, 1.5 lbs 6" x 9.5"
B-743 $29.95

The Compleat Talking Machine, 3rd Ed.
By Eric L. Reiss
Volume 3 of this best selling series of books expands with new chapters of how to identify fake machines and how to make home recordings on cylinders. Includes a glossary of phonograph terminology, biographical sketches of twenty individuals who were instrumental in the early development of the phonograph and company histories on Edison, Columbia, Victor and Zon-O Phone. Features an expanded identification guide with photos and descriptions of over 250 wind-up phonographs, and an updated price guide for over 350 outside-horn machines. 249 pgs, 2 lbs 8.5" x 11"
Closeout B-800 $26.95



Discovering Antique Phonographs 1877-1929
By Timothy C. Fabrizio & George F. Paul
Through over 400 beautiful color illustrations, follow the progress of the acoustic talking machine from its crude beginnings in the 1870s to its most splendid and sophisticated heights in the early 20th century. An unparalleled archive of rare, fascinating, and previously undocumented objects has been assembled accompanied by the story behind the beautiful, bright machinery. A value guide will further enlighten the collector on the modern marketplace. 240 pgs, 3.2 lbs Hardcover 8.75" x 11.25"
B-877 $49.95

The Edison Cylinder Phonograph Companion
By George Frow
From the Naughty Nineties to the Roaring Twenties, The Edison Cylinder Phonograph caught most of the tunes and characters of the day. This book traces many models and follows them from production committee, early outlines and into manufacture.Includes illustrations and descriptions of each model from 1877 to 1929. Hard cover. 384 pgs, 2.0 lbs 6.5" x 9.5"
New Lower Price! B-312 $34.95
While Supplies Last!

The Edison Disc Phonographs and the Diamond Discs

By George Frow

This book describes all models, giving production figures, promotional schemes and extensively describing production processes for making discs. The most complete history of Edison disc phonographs ever published. Hardcover, excellent quality. 296 pgs, 2.0 lbs 6.5" x 9.5"

New Lower Price! B-311 $29.95

While Supplies Last!

Look for the Dog

By Robert W. Baumbach

An illustrated Guide to Victor Talking Machines, 1901 to 1929. 326 pgs cover every model of phonograph Victor produced, with illustrations and descriptions. Also contains a section on servicing notes. This is the most complete book on Victor phonographs available anywhere! 326 pgs, 1.1 lbs 5.5" x 8.5"

B-646 $19.95

Phonographs With Flair

By Timothy C. Fabrizio & George F. Paul

The history of phonograph design is not just about eye-catching cabinetry, it is the saga of our parents and grandparents, and the way they saw the world in which they lived. Through the 340 color illustrations and detailed captions that the authors have assembled, the development of phonograph design is engagingly explored from the early 1900s through the disco days of the 1970s. Whether you are interested in phonograph collecting, design, art, music or twentieth century social history, you will be fascinated by Phonographs With Flair. 192 pgs, 2.9 lbs Hardcover 11.25" x 8.75"

While Supplies Last! B-878 $49.95

Radio Collecting

1921-1932 Radio Collector's Guide

By Morgan E. McMahon

Lists key information on over 9,000 radio receivers made by some 1,200 companies prior to 1933. Gives manufacturer, year, original price, cabinet type, and technical information. 262 pgs, 0.8 lb 5.25" x 8.25"

B-306 $11.95

1940 E.H. Scott Radio Laboratories Catalog Reproduction

Reprinted by Kent King. Reproduction of the full line catalog of custom built receivers from E.H. Scott Radio laboratories. Includes the evolution of the time, FM reception. Has several custom built radios and cabinet illustrations and a technical summary of Scott receivers. 32 pgs, 0.3 lbs 8.25" x 10.75"

B-775 $13.95

Antique Secrets - How the "pickers" find treasure... in another man's trash

By Joe Willard

This book teaches you the secrets of negotiating profitable deals, knowing when to sell, and where to find the treasures others don't even realize they have. Beginners and experts alike will find down-to-earth advice that is sure to improve both the readers knowledge of the market and skill level. With the right information, anyone can learn how to pick out the treasures others simply overlook. 192 pgs, 1 lb 6" x 9"

B-835 $14.95

Antique Wireless Association Review, Vol. 11

Includes papers on all of the Scott receiver products, a comprehensive survey paper on National Company sliding coil receivers plus two other shorter papers of historical interest. 200+ illustrations including pictures of early military RT gear. 234 pgs, 1.2 lbs 6" x 9"

New Lower Price! B-799 $19.95

While Supplies Last!

Antique Wireless Association Review, Vol. 13

The lead article is by well-known Canadian AWA member Robert Murray, who explores in depth the Canadian Northern Electric manufacturing company and its radio products. Additional articles on: The Marconi Company, patent 7777, radio direction finding in WWII, and early radio stations. 160 pgs. 1 lb 6" x 9"

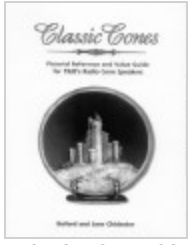
B-867 $19.95

Behind the Front Panel

By David Rutland

This book traces the design and development of 1920's radio from the advent of the vacuum tube to the first AC set. Detailed explanations are provided for regenerative, neutrodyne, TRF, reflex, superheterodyne, and other circuits. Includes dozens of photos of commonly found 20's vintage radios and parts. 160 pgs, 0.6 lb 5.25" x 8.5"

Last Chance! Out of Print B-665 $14.95



Classic Cones

By Buford and Jane Chidester

A pictorial reference and Value Guide for 1920's Radio Cone Speakers

In the latter part of the 1920's, radio manufacturers turned their attention to designing speakers that would look attractive and blend in with the home environment as well as sound better than the horn speakers produced in the earlier part of the decade. This full color book provides photos, descriptions and current values for almost 300 different models of radio cone speakers from the1920's. It also includes many advertisements for the speakers shown. 122 pgs 1.0 lbs. 8.5" x 11"

B-887 $25.95

The Collector's Guide to Antique Radios 5th Edition Identification and Values

By John Slusser

This is the first edition of this book written by new authors. In the tradition set by Martin and Sue Bunis, this book contains all the most vital information on antique radios, plus an expanded description of each. Contains more than 600 color photographs, with a completely new section on E.H. Scott radios.

285 pgs, 2.0 lbs 8.5" x 11"

B-882 $19.95

Collector's Guide to Novelty Radios, Book II

By Marty Bunis and Robert F. Breed

This book is a continuation of 1st book of Novelty radio collecting. As before a suggested price range is shown for each radio. As with all price guides, values shown are intended only as guides to help price a radio. Advertising and Product-Shaped Radios listed include: Isis, Auto-motive related, Food related, Lunch Boxes and Vending Machines. 199 pgs, 2 lbs 8.5" x 11"

While Supplies Last! **B-794 $19.95**

The Complete Guide To Antique Radios: Pre-War Consoles

By Mark V. Stein

This is the first and only comprehensive reference on console radios. From Admiral to Zenith, over 3,500 models are individually pictured, described and valued. Consoles listed begin with the 1929/30 production year and span through the end of production in 1942. As with the Machine Age to Jet Age series, the author has included tube and band count information and variations wherever possible. This invaluable reference also includes an expanded resource section listing dealers, collectors, publications, experts/specialists, products/suppliers, restoration services and important websites. The author also provides important information about identification, grading/valuation and historic insights. Softbound laminate cover, B&W format 240 pgs, 1.6 lbs 8.5" X 11"

B-852 $29.95

E.H. Scott Radio Collector's Guide

By Jim Clark

A guide to the "Stradivarius of Radio Receivers" from 1925 to 1946. Split into 5 different eras plus additional sections on E.H. Scott cabinets and accessories. Over 100 pgs with many black and white pictures. Spiral bound. 0.8 lb 8.5" x 11"

B-694 $29.95

Evolution of the Radio

Edited by Scott Wood

Essentially a picture book, this contains 100 pgs of reproduced magazine ads and sales brochures from the 1920's to 1950's, as well as over 100 pgs of photographs of old radios reproduced in full-color. Over 1000 radios are pictured altogether. A newly revised 1994 price guide is included giving market values. 216 pgs, 1.1 lb 8.5" x 11"

B-609 $22.95

A Flick of the Switch

By Morgan E. McMahon

A companion volume to Vintage Radio 1887-1929, this book continues with the history of radio into the beginnings of television. Over 1000 pictures. 300 pgs, 0.8 lbs 5.25" x 8.5"

B-305 $11.95

Genuine Plastic Radios of the Mid-century, with Values

By Ken Jupp & Leslie Pina

Mid-century table radios made primarily of brightly colored plastic represent a newcomer to the radio collecting world. With more than 450 full color photographs of radios plus advertisements and black and white vintage photos, this book is a must for anyone interested in radios, mid-century industrial design or popular culture. Hardcover 219 pgs, 3.5 lbs 11.25" x 8.75"

While Supplies Last! **B-802 $39.95**

Guide to Old Radios: Pointers, Pictures and Prices 2nd Ed.

By David and Betty Johnson

Contains more than 3,300 listings with updated prices; organized alphabetically by manufacturers; 350 photos and illustrations which document the evolution of both radio and broadcasting; and two additional chapters on the heyday of radio. 277 pgs, 1.4 lbs 7" x 10"

B-715 $19.95

Machine Age to Jet Age Vol. 1

By Mark V. Stein

Volume I - 1933-1959. A comprehensive pictorial price guide to machine age style tabletop radios. 46 major manufacturers are covered, as well as 30 pgs on miscellaneous manufacturers. More than 1600 radios pictured. 256 pgs, 1.9 lbs 8.5" x 11"

While Supplies Last! See B-900 on page 101 for revised and updated re-issue.

B-690 $24.95

Machine Age to Jet Age Vol. 2

By Mark V. Stein

Volume II - 1930-1959, (New 2001 update: Includes 2001 market values of variations not previously included!). A supplement to Mark Stein's first book (B-690), this volume has over 350 pgs of all new listings, with 3,100 radios pictured and valued. Listings in both volumes now total over 4,000. 200 color photos. This volume is also expanded to include the years 1930 - 1932. A must for the tabletop radio collector.

358 pgs, 2.3 lbs 8.5" x 11"

B-752 *$28.95*

Machine Age to Jet Age Vol. 3

By Mark V. Stein

Volume III - 1930-1962. All new listings, with over 2,800 radios pictured and dated, with tube counts and current collector values. Listings for the 3 volumes of this excellent series now totals 7,000. 256 pgs, 1.6 lb 8.5" x 11"

B-829 *$29.95*

Philco Radio: 1928-1942

By Ron Ramirez with Michael Prosise

A comprehensive reference book on Philco, the leading radio manufacturer during radio's "Golden Age". Contains a year-by-year look at the Philco radio line with specifications for each model. 200 color photographs, 200 b/w photographs and line drawings. 160 pgs, 1.5 lbs 8.5" x 11"

B-644 *$29.95*

Radio Art

By Robert Hawes

This colorful coffee-table picture-book traces the evolution of the home radio from the 1920s to the 1950s, with particular attention given to the cabinet as an art object. It features colorful, deco, novelty and outrageously styled radio sets from around the world. Although published in Britain,it includes about 40 American radios amount eh 260 sets pictured in full color. Hardcover. 128 pgs 2.0 lbs 11" x 8.5"

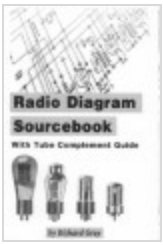
While Supplies Last! *B-614* *$9.95*

The Radio Collector's Directory & Price Guide 2nd Ed.

By Robert Grinder

A thorough revision of the first edition, this edition has been expanded from 8,500 to 20,000 models covered, with the range of years covered increased from 1921-1941 to 1921-1965. Trade names covered have more than doubled to over 1400. 524 pgs, 1.4 lbs 5.5" x 8.5"

While Supplies Last! *B-691* *$26.95*



Radio Diagram Source Book With Tube Complement Guide

By Richard Gray

Need a wiring diagram to repair an old radio, or help identifying a make or model number? This book introduces the collector to various sources of early service literature. Lists over 10,000 U.S. made radios with tube complement, dial lamp and IF frequency used.

269 pgs, 1.0 lb 6" x 9"

B-739 *$18.95*

Radio Manufacturers of the 1920's

By Alan Douglas

This monumental 3 volume work offers an outline history for each of the major radio manufacturers of the 1920's. It features the company principals and their factories, the financial ups and downs of the industry, and hundreds of pictures of radios produced up to 1930. Over 250 pgs each volume. All softcover.

2.0 lbs each. 8.5" x 11" each.

Vol. 1	*A-C Dayton through J.B Ferguson*	*B-385*	*$24.95*
Vol. 2	*Freed Elsemann through Preiss*	*B-534*	*29.95*
Vol. 3	*RCA through Zenith*	*B-567*	*29.95*
	Set of All Three	*B-RADIO3*	*$77.00*

The Saga of Marconi Osram Valve A History of Valve Making

By Barry Vyse & George Jessop

Electronics were born in 1904 with the invention of the thermionic diode. From then on up to circa 1960, thermionic valves were THE technology. Marconi-Osram Valve was involved in the valve business from the beginning. This was the earliest time GEC was associated with the name Marconi, and it became one of the world's great companies in it's contribution to science, technology and industry over an extended period. This book details the story of this great company with full illustrations, both black and white and color.

346 pgs. 2.4 lbs Softcover 6.5" x 9.5"

While Supplies Last! *B-881* *$39.95*

Sears Silvertone Catalogs 1930-1942

By Mark V. Stein

This is the first publication ever to focus on radios marketed under the Sears Silvertone brand name. Over 1000 Silvertone Radios as they originally appeared in the Sears Catalogs - Historical notes, current values, variations and manufacturer's code key also included.

240 pgs, 1.25 lbs 8.5" x 11"

B-876 *$34.95*

This Was Radio

Introduction by Leonard Maltin

By Ronald Lackmann

Here is the story of Radio: in words, photographs and on two compact discs... how it all began and the people who brought it to life. The famous voices, the inventors, the network founders, the shows, the events and the faces. 70 pgs. + 2 Audio CD's 2.5 lbs 14.25" x 11.25"

B-869 *$39.95*

Tabletop Radios Volume I
The Complete Price Guide to Antique Radios

By Mark V. Stein

Formerly Machine Age to Jet Age Vol. 1 (B-690), this book has been revamped and re-named. This revised volume represents the complete contents of the original reference, plus more! Formats have been streamlined and enhanced to include tube and band counts, as well as the current values for all models and their variants. Also, newly included is a comprehensive cross reference with 2003 market values. This index encompasses listings for all radios pictured in the full three-volume series. With over 9,000 listings, this guide serves as both an excellent introduction to the series as well as an invaluable update for those who already own a copy of Machine Age to Jet Age Vol. 1.

240 pgs, 1.6 lbs 8.5" x 11"

B-900 $28.95

Transistor Radios 1954-1968

By Norman Smith

Get the story on who and what shaped the Radio Get ready for a nostalgic trip back to the heyday of portable music. Over 1,000 radios are featured in this book, from American manufacturers such as Admiral and Zenith and from Japanese manufacturers such as Hitachi, Realtone and Sony. All radios are identified by manufacturer, model number, number of transistors, special features, country of origin and date. A complete value guide is included to help the collectors. 160 pgs, 2 lbs 8.5" x 11"

B-801 $29.95

Voices in the Air: The Fascination of Radio

By Robert Bonebrake

Anything interesting can turn into a hobby, but in addition to being interested, you must also be fascinated in order for it to become a lasting hobby. Then follows the knowledge of the subject and the satisfaction that comes with it. This journey from interest to knowledge to fascination to satisfaction is chronicled in this book. Has many illustrations, with examples and photographs, of many home-built radio projects. It begins with crystal sets in 1938 and continues to the present time. 174 pgs, 1 lb 8.5" x 11"

B-810 $12.95

Zenith Radio: The Early Years 1919-1935

By Harold Cones, Ph.D

John Bryant, AIA with Martin Blankinship and William Wade. Zenith's "The Quality Goes in Before the Name Goes On" is one of the most recognized, and well earned corporate mottos in America. With access to the Zenith corporate archives and their discovery of the long sealed files of one of Zenith's founders, the authors present for the first time the documented story of the early years of Zenith. The authors present a wealth of never before published photographs, documents and information as well as color portraits of many Zenith radios of the era. Includes a database of valuable information which covers every radio produced by the company, along with a rarity and price guide. 192 pgs, 2 lbs 11" x 8.5"

B-770 $29.95

Zenith Radio Service Manual and Parts List

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models. 510 pgs, 2.6 lbs 8.5" x 11"

New Lower Price! **B-755 $18.95**

The Zenith Trans-Oceanic

By John H. Bryant, AIA and Harold N. Cones, Ph.D.

The royalty of Radios. The definitive book of perhaps the most popular radio produced during the first 50 years of radio. Complete history as well as collecting and restoration hints. Full of pictures, many in color. 160 pgs, 1.7 lbs 8.5" x 11"

B-689 $24.95

Technical

1928 Radio Troubleshooting: A complete and Practical Wrok on Radio Receiver Troubles and How to Cure Them

By Enno R. Haan

A re-print of great 1928 nuts and bolts book by then editor of Popular Mechanics. Within each chapter are informative details on tube testing and rejuvenation, filament circuit troubles, how to neutralize a neutrodyne, fixing open circuited loudspeakers, care of headphones and much more. Includes a troubleshooting section and six pgs of tube specifications for types such as UX201A , Ceco A,H and K, DeForest DV-5, DL-4, DL-2 and others. Many great line art illustrations. 317 pgs, 1.1 lb 5.5" x 8.5"

B-766 $12.95

Atwater Kent Radio Service Manual

A reprint of the 1928 A.K. factory service manual, covering models 10, 10B, 12, 20, 20C, 30, 32, 33, 35, 36, 37, 38, 40, 42, 44, 48, 49, 50 and 52. Spiral bound. 98 pgs, 0.8 lb 9" x 11"

B-356 $13.50

Atwater Kent Radio Parts List

A companion book to the 1928 A.K. Service Manual (B-356), this reprint shows chassis views and parts identification for all the models listed above. Spiral bound. 64 pgs, 0.5 lb 9" x 11"

B-357 $12.50

Atwater Kent Radio: Electrical Values of Resistors & Condensers

Reprint of 1932 Atwater Kent special service manual gives values for resistors and condensers used in every receiver up to 1933. This hard-to-find information is normally not given on Riders or original A.K. schematics. Values may be looked up by A.K. part number or radio model number. 24 pgs, 0.1 lb 8.5" x 11"

B-574 $7.75

Set of All Three Atwater Kent Books (listed above)
Save over 10%!
Includes: B-356, B-357 & B-574. B-AKSET $29.95

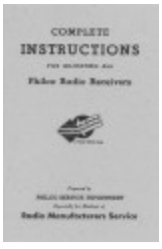
Instructions for Atwater Kent Open Mounted Radio Receiving Sets

High quality reprint of a 1929 Atwater Kent booklet showing photos and battery hook-ups for 14 different breadboard receivers. 12 pgs, 0.2 lb 6" x 8.75"

B-600 $6.95

Antique Radio Restoration Guide 2nd Ed.

Teaches basic technique for troubleshooting and repairing old radios, refinishing cabinets, and following necessary safety precautions. Also contains useful information such as sources for parts, schematics, a glossary of terms and more. 160 pgs, well illustrated. 1.0 lb 7" x 10"

B-627 $17.95

Complete Instructions for Adjusting All Philco Radios

Reprint of 1934 factory alignment instructions covering all Philco receivers to that time. Shows chassis layouts and adjustment locations for over 50 models. 35 pgs, 0.3 lb 6" x 9"

B-554 $5.95

Elements of Electricity and Radio

Re-print of the original basic electricity and electronics course from the US Navy. Has chapters on mathematical principals (everyone's favorite!), to elementary definitions and ohms law, to applications of vacuum tubes. Also has commonly used charts and tables. If you're interested in electronics, but need to start at the beginning, this book is for you. Great WW II stuff; over 50 years old, but still good info. 205 pgs, 0.7 lbs 6" x 9"

New Lower Price! B-758 $8.95

The Impoverished Radio Experimenter

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Also: vacuum tube substitutions; inexpensive tube power supplies; grid leak detectors; regenerative receivers and more. 48 pgs, 1 lb 5.5" x 8.5"

B-861 $5.95

The Impoverished Radio Experimenter Vol. 2

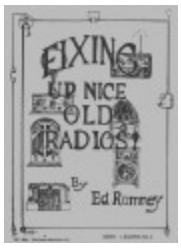
Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build a grid dip oscillator, a shortwave converter, a slow motion dial drive, space-wound coils and more! 48 pgs, 1 lb 5.5" x 8.5"

B-885 $5.95

The Impoverished Radio Experimenter Vol. 3

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build and Impedance Bridge, a one-tube SW receiver, a headphone amplifier, old-time radio cases and more! 48 pgs, 1 lb 5.5" x 8.5"

B-901 $6.95



Fixing Up Nice Old Radios!

By Ed Romney

Easy to understand guide to antique radio repair covers everything from crystal sets to the Scott 800B! Uses photos of the insides of popular collectible sets to cover actual repair jobs in detail. Includes AK, Zenith, Bosch, Scott, National, Hallicrafters, Crosley 50, Radiola III, 17, 25, R-28, Philco and others. Explains Wunderlich, AVC, crystal filters, Scott and Zenith push-buttons and band-switches, alignment and more. 170 pgs, 1.2 lbs 8½" x 11" spiral bound

B-549 $34.95

How to Build the Twinplex Regenerative Receiver

By T.J. Lindsay

You can build the 1934 classic Doerle Twinplex, a single tube regenerative receiver powered by batteries! Simple, stable, sensitive and inexpensive. Great project for beginners or those who remember the joy of making your own radio. Includes designs for two other Twinplex receivers, one tube and one solid state. 63 pgs, 1.0 lbs 5.5" x 8.5"

B-791 $7.95

How to Build Your First Vacuum Tube Regenerative Receiver

By T.J. Lindsay

This book will coach you through building your first regenerative receiver. Learn the practical aspects of finding old components and using them toward your goal of building your own little radio. The set described is a real working receiver that was built from salvaged material on hand. 127 pgs, 0.5 lbs 5.5" x 8.5"

B-774 $9.95

How to Build Your Radio Receiver

Classic construction text from 1924. Includes instructions on how to build 7 different receivers ranging from crystal sets to re-generative superhets. Aimed at beginners in 1924, includes section on 44 symbols commonly found in radio circuit diagrams. Antique Electronic Supply cannot supply all the parts needed in all the projects in this book. 100 pgs, 0.7 lbs 8.5" x 11"

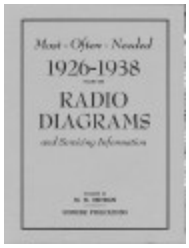
While Supplies Last! **B-699 $8.95**

How to Make a Neutrodyne Receiver

By F.F. Webb

A re-print of 1925 book which shows you how to build a radio like those used before the superheterodyne days. 12 chapters cover topics such as advantages of Neutrodyne, description of a neutrodyne set, vacuum tubes used, how to build the neutroformer, neutralizing condensers, neutralizing the set, antenna for set, operating and troubleshooting. Information can be used to build a set from scratch or to help you restore an original.

59 pgs, 0.5 lbs 5" x 7" **B-763 $6.95**



Most Often Needed 1926-1938 Diagrams

A reprint of Morris Beitman's Supreme Publications book, showing circuit diagrams for 600 of the most commonly found radios of that time. A valuable resource for restorations. 240 pgs, 1.4 lbs 8.5" x 11"

New Lower Price! **B-307 $18.95**

While Supplies Last!

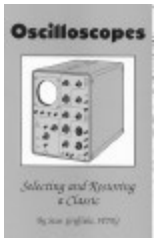
Old Time Radios! Restoration and Repair

By Joseph J. Carr

A well-written book on the history, theory and practical operation of old-time radio sets, with detailed instructions on how to repair them. Included is information on how vacuum tubes work, radio troubleshooting, alignment, test equipment, and repairing water damage.

256 pgs, 1.0 lb 7.25" x 9"

B-570 $19.95



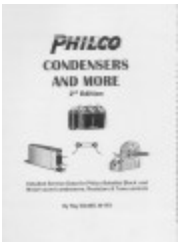
Oscilloscopes: Selecting and Restoring a Classic

By Stan Griffiths

The complete book of Tektronix oscilloscopes from 1950 through the early 1970s. Contains pictures and detailed descriptions of every model in the Tektronix line, along with information and tips on restoring these classics.

372 pgs, 1.0 lb 5.5" x 8.5"

B-631 $24.95



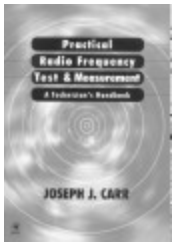
Philco Condensers and More

By Ray Bintliff W1RY

Provides detailed data for Philco Bakelite block condensers, metal-cased condensers and tone controls. Pictorial guides show electrical connections and capacitor values. More than 300 illustrations.

68 pgs 0.4 lb 8.75" x 11"

B-830 $16.95



Practical Radio Frequency Test and Measurement, A Technician's Handbook

By Joseph J. Carr

Teaches readers the basics of performing the tests and measurements used in radio-frequency systems installation, proof of performance, maintenance, and troubleshooting. Anyone interested in gaining more practical proficiency with RF, whether engineer, technician, amateur radio buff, or hobbyist, needs a copy of this book. Joseph Carr, himself an accomplished practitioner in this field, examines the instruments used in various types of measurement before moving on to specific measurement methods. 348 pgs, 1 lb 7" x 10" **B-836 $34.95**

Radio-Craft: 50 Years of Radio

Edited By Hugo Gernsback

A reprint of Gernsback's 1938 special issue of Radio Craft magazine which commemorated the first 50 years of radio. Contains the reminiscences of radio pioneers DeForest, Sarnoff, Conrad, Crosley, McMurdo Silver and others, as well as the famous Gernsback predictions for the next 50 years. Also details the progression of the vacuum tube, mileposts in television and famous early radio circuits. 144 pgs, hundreds of photos. 1.2 lbs 8.5" x 11"

B-373 $15.95

Radio for the Millions

Prepared By the Editorial Staff of Popular Science Monthly, 1945

From vintage issues of Popular Science Magazine comes this re-print of well-illustrated electronics articles. Topics include phonographs and shortwave radios, cabinet design and radio servicing. Each article has sharp photographs, schematics, and parts lists.

192 pgs, 1.0 lb 6" x 9"

B-781 $11.95

Radio Set Socket Layout Guide 1921 to 1935

This reprint of a 1935 RCA publication shows tube complement, chassis layout and date of manufacture for thousands of radios produced by over 100 different manufacturers. It also contains a tube data chart and base diagrams for RCA receiving tubes. It is very useful for identifying unknown model numbers or determining which tubes belong in a set. 256 pgs, 0.9 lb 5" x 8.25"

B-624 $9.95

Radio, Wireless Telephone and Wireless Telegraph Equipment

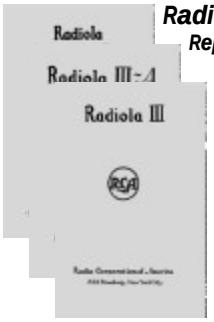
High quality reprint of early (1920's) Montgomery Ward catalog of "wireless" equipment. 32 pgs of radios, kits, tubes and books as available 70 years ago. Sorry, you can't order from this catalog! 0.2 lbs 7" x 9.5"

B-697 $2.75

RCA Radiolas, Radiotrons, and Accessories

A reprint of 1925 RCA promotional literature. 20 pgs of pictures and information on models 30, Super VIII, 28, 26, 25, 20, III, and IIIA receivers and loudspeakers #100, 102, 104 and UZ-1325. 20 pgs, 0.2 lb 4.75" x 7.5"

B-K15 $3.95



Radiola Instruction Manuals

Reprints of the RCA instruction manuals, covering installation and operation of the Radiola III series units. 0.2 lb. each 5.5" x 8.5" each

Radiola III 15 pgs	*B-321*	*$4.95*
Radiola III-A 15 pgs	*B-344*	*4.95*
Radiola Balanced Amp 8 pgs	*B-345*	*5.95*

Radiotron Designer's Handbook, 4th Ed.

By F. Langford Smith

(reprint) A full reprint from page 1 to 1498 of F. Langford Smith's bible for design of vacuum tube circuits. If you're looking for the original as a collectable, this is not for you, but if you're looking for the data inside, here it is. Hard cover. 1498 pgs, 3.5 lbs 6" x 9"

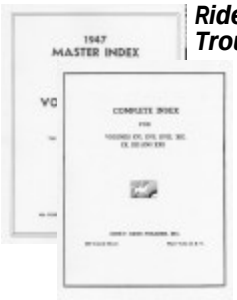
B-795 $79.95

Ready Set Go! An Electronics Reference for the Everyman

By Kevin O'Connor

A handy reference for the novice electronic tinkerer and experienced craftsman alike. Informative and easy to read, the book explains: how to read schematic symbols; explains standard notation, S.I. symbols and tolerances; reveals the resistor color code; lists standard resistor values for 1%, 5%, 10% and 20% components; lists standard capacitor values and explains the color coding of vintage caps; explains current, voltage, power, resistance, capacitance and inductance; explains Ohm's Law and how to figure out series/parallel resistance. Transformers and impedance are clearly explained. Examples are worked out throughout the book to illustrate how truly simple basic electronics is! spiral bound. 84 pgs, 2 lbs 9" x 11"

B-821 $20.00



Rider 1947 Master Index to Perpetual Troubleshooter Manuals

Covers volumes I thru XV. High quality photocopy. 205 pgs, 1.1 lbs 8.75" x 11"

B-331 $21.95

Rider Complete Index to Perpetual Trouble Shooter Manuals

Covers volumes XVI through XXII. 48 pgs, 0.5 lb 8.5" x 11"

B-347 $8.95

Secrets and Secret Holders A Report on Intellectual Property in the Musical Instrument Amplifier Industry

By Kevin O'Connor

This document evolved from a patentability study for the circuit techniques involved in the author's invention trade named Power Scaling. The nuances of electronic art allow designs that are similar to be differentiated for the protection of the individual inventors, and allow each inventor to capitalize on the inventions if they are in different fields. Similar inventions within the same field are problematic, as the grey areas of infringement of design and similarity of application lead to confrontation. Such behavior (as described in this paper) inevitably leads to a negative reputation within the industry that can ultimately hurt the livelihood of the patent holder. 30 pgs, 0.1 lbs 5.5" x 8.5"

B-872 $15.00

Secrets of Homebuilt Regenerative Receivers

By C.F. "Rock" Rockey

Discover the secrets of building regenerative shortwave receivers. These incredibly simple radios will amaze you with their unbelievable ability to pull in signals from every country on earth. All the secrets are here! 127 pgs, 0.8 lb 5.5" x 8.5"

B-742 $9.95

Operators and Organizational Maintenance Manual for TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U Tube Testers

Reprint includes introduction and general description of tester, operating instructions, maintenance instructions and even instructions for demolition to prevent enemy use! Spiral bound. 44 pgs, 0.3 lbs 8.5" x 11"

B-675 $10.95

Test Data for TV-7/U Tube Tester

High quality reprint of the test set-up manual for the military TV–7/U, TV–7A/U, TV–7B/U, and TV–7D/U versions of Hickock tube testers, normally supplied in the lid of the tester. Also contains operating instructions, conversion table for Army VT numbers, and data table for CV type tubes. 83 pgs, 0.4 lb 6.75" x 5.25"

B-546 $9.95

Thordarson Transformer Manual

This is a reprint of Thordarson's Sound Amplifier Manual No. 346-A, Serviceman's Guide 342-A, Radio Servicing Guide 342-B, Complete Transformer Guide 400, and TruFidelity Transformer Catalog 500.
144 pgs, 1.5 lbs 8.5" x 11"

B-864 $11.95

Those Great Old Handbook Receivers Chapters from the 1929 and 1934 ARRL Radio Amateurs Handbook

Chapters deal with detailed receiver theory, construction techniques and power supply secrets from the 1929 and 1934 editions of the ARRL Handbook. If you enjoy electronics, amateur radio, collecting, or just the history of technology, you'll get interesting insight into the beginnings of a technology so common today we almost take it for granted. 158 pgs, 0.8 lb 6" x 9"

B-741 $8.95

Tube Testers and Classic Electronic Gear

By Alan Douglas

Provides an overview of pre-1970 (the vacuum tube era) radio test equipment. It begins with an extensive discussion of tube testing and use of testers, and progresses into curve tracing. The different types of testers are compared; emission, dynamic and mutual conductance, and testers from 23 different manufacturers are tabulated and pictured. Also covers VOMs, VTVMs, Q Meters, Grid Dip Meters, Capacitance and Inductance Bridges, Signal Generators, Signal Tracers and Oscilloscopes. It includes brief company histories of the manufacturers. Useful for radio collectors, vacuum tube enthusiasts and historians. Over 300 photos and illustrations.
172 pgs, 1.3 lbs 8.5" x 11"

B-853 $25.95

Valve Radio & Audio Repair Handbook 2nd Edition

By Chas E. Miller

This book is not only an essential read for every professional working with antique radio and gramophone equipment, but also dealers, collectors and enthusiasts the world over. The emphasis is firmly on the practicalities of repairing and restoring, so technical content is kept to a minimum and always explained in a way that can be followed by readers with no background in electronics. Those who have a good grounding in electronics, but wish to learn more about the practical aspects, will benefit from the emphasis given to hands on repair work, covering mechanical as well as electrical aspects of servicing. Repair techniques are also illustrated throughout. A large reference section provides a range of information culled from many information sources, and also includes specialist dealers for valves, components and complete receivers. 270 pgs, 1.4 lbs 7.5" x 9.75"

B-839 $37.95

The Weekend Refinisher

By Bruce Johnson

Easy-to-follow guide teaches the basics of wood repair and finish restoration. Learn how to repair scratches, veneer chips, fill small holes, raise dents, remove water damage, identify and revive various finishes and more. 295 pgs, 1.0 lb 7.25" x 9.25"

B-645 $14.95

Wireless Communication in the United States

By Thorn L. Mayes

The first use of wireless was for marine radio communication. This book is about the inventors, the engineers and the promoters who brought it about. It describes huge spark and arc sending sets that were used on ships and at bleak coast stations. It tells of scientific discovery and patent wars. It was written by T.L. Mayes, an engineer who knew many of the pioneers, and prepared for publication by Arthur C. Goodnow, a Westinghouse radio engineer and historian.
242 pgs, 1.2 lbs 6" x 9"

B-880 $29.95

Zenith Radio Service Manual and Parts List

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models.
510 pgs, 2.6 lbs 8.5" x 11"

New Lower Price! **B-755 $18.95**

Telephone, Early Television and Clocks

100 Years of Bell Telephones

By Richard Mountjoy

From the Coffin sets of the 1870's to the Princess phones of the 1960's and beyond, this book explores the technology and the history of the telephone. Because the Bell Company was the sole source for much telephone technology until very recently, much of the public access to this information has been quite limited. This definitive work will end much uncertainty by providing a vast amount of information never before published. Design changes are carefully chronicled with 350 color photographs. For those who are restoring a telephone and would like to ensure its historical accuracy, this book will make it easy to match pieces correctly. 175 pgs, 1.9 lbs 8.5" x 11"

B-730 *$29.95*

Collector's Guide to Vintage Televisions

By Bryan Durbal & Glenn Bubenheimer

Current values for over 1400 postwar TVs, including 1940s consoles and tabletops, 1950s predictas and portables. 1960s JVC, Sony and Panasonic, through the hand held sets of the 1980s. Over 200 full color photos.
198 pgs, 1 lb 5.25" x 8.5"

B-833 *$15.95*

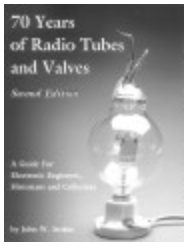
20th Century Modern Clocks

By Mark V. Stein

From the founder of Radiomania Books comes this new compendium of collector's items: Clocks. The author has been collecting them for over 30 years, and has decided to create this beautiful desktop reference for everyone to enjoy. This first of two books focuses on desk, shelf and decorative models.
255 pgs, 2.0 lb 8.5" x 11"

B-886 *$29.95*

Vacuum Tubes

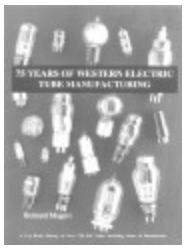


70 Years of Radio Tubes and Valves: Second Edition

By John W. Stokes

Here is the story of the thermionic vacuum tube from its beginning in 1883 and continuing through 1960. It traces the evolution of radio receiving tube design in Britain, Holland, Germany, Canada and Australia, as well as the United States. Company history is presented for DeForest, Ken Rad, Western Electric, Mazda, Mullard, Ediswan, Philips, MOV Valve, Raytheon, Sylvania, GE, Philco, Marconi, Telefunken, Tung-Sol and others. The Second Edition features a new chapter on tubes for audio applications, with 20 additional photos and reproduced magazine ads. Also included is a new index by tube number, facilitating easy access to the information on over 1300 types discussed in this book. 264 pgs, 2.0 lbs. 8.5" x 11"

B-765 *$29.95*



75 Years of Western Electric Tube Manufacturing

By Bernard Magers

A Log Book history of over 750 WE tubes. A comprehensive listing of all WE tubes manufactured during their 75 year history. Includes dates of manufacture, description, equipment used in, materials, a summary of tube parameters and manufacture discontinued date. Also covers early history of the Western Electric Co. and their tube activity. Contains hundreds of tube illustrations. Written by a former Western Electric Senior Engineer. 144 pgs, 1.0 lb 8.25" x10.75"

B-634 *$18.95*

1937 Sylvania Tube Manual

Re-print of 1937 tube manual has pin out diagrams and specifications on tubes manufactured by Sylvania in 1937. Tube types range from 01A and X99 to 6K7. Includes 10 pgs of general tube information as well a a section of typical radio receiver and amplifier circuits of the day.
183 pgs, 0.7 lb 5.5" x 9"

B-764 *$12.95*

Basic Theory and Application of Electron Tubes

Departments of the Army and the Air Force
February 1952
Department of the Army technical manual #TM 11-662
Department of the Air Force technical manual #T0 16-1-255 215 pgs. 1.1 lb 8" x 10.25"

B-899 *$16.95*

British Radio Valves The Vintage Years: 1904-1925

By Keith Thrower

Includes background on the manufacturers and suppliers; fleming diodes; Marconi-round valves; valves produced for the armed services; and more. Extensive references, with data on 475 types. 100 plus black and white photos.
Indexed, 148 pgs, 1 lb 7.5" x 10.5"
New Lower Price *B-840* *$29.95*

The Ballast Tube Handbook

By A.P. Jacobi

A comprehensive collection of ballast tube data, newly revised and expanded to include a 53 page section on ballast tube substitutions. Lists over 4000 tube numbers.
120 pgs, 0.9 lb. 8.5" x10.75"

B-573 *$10.95*

Collector's Vacuum Tube Handbook Vol. 1

By Robert T. Millard

This book contains hard-to-find electrical data on nearly 200 tube types that pre-date the RMA (Radio Manufacturers Association) standardized numbering system, which was initiated in 1934. It includes basing diagrams, photos of tubes and boxes, and brief developmental histories of each. Western Electric, DeForest, Arcturus, Cunningham, GE, Westinghouse, Philco, Speed, Ken-Rad, Sparton, Cardon, Daven, McCullough, and others are among brands covered. 196 pgs, 1.2 lbs. 7" x 10"

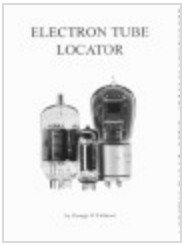
B-883 $25.95

Dating the RCA (Cunningham) Composition-Base Tubes

By Brother Pat Dowd

A comprehensive paper based on RCA engineering bulletins covering the marking details and date coding of the tubes manufactured between 1924 and 1941.
13 pgs, 0.3 lb 8.5" x 11"

B-343 $3.95



Electron Tube Locator

By George H. Fathauer

A comprehensive listing of receiving, transmitting and industrial tube types manufactured in the U.S. and Europe with references to sources of complete data. Includes tube functions, filament/heater characteristics and basing diagrams. Lists approximately 12,000 different tube types. Contains over 300 pgs of data and diagrams. 326 pgs, 1.5 lbs 8.5" x11"

New Lower Price **B-662 $27.95**

Electron Tube Resume

By George H. Fathauer

An abridged version of the "Electron Tube Locator" covering the designation system used by major tube manufacturers in the U.S. and Europe. Includes equivalent tables for U.S. VT types and early Navy types. 30 pgs, 0.3 lb.
5.5" x 8.5"

B-672 $4.95

Getting the Most Out of Vacuum Tubes

By Robert B. Tomer

Types and causes of tube failures, what to expect from tubes, testing methods, and all about tube maintenance programs. 160 pgs 0.6 lb 5.5" x 8.5"

B-898 $14.95

G.E. - Essential Characteristics

The 1973 edition of G.E.'s tube data book, giving all the characteristics starting with 00A and 01A. Includes foreign to American tube interchangability chart, industrial/military cross reference, picture tube data and basing diagrams. Also entertainment semiconductors.
473 pgs, 1.3 lbs 5.5" x 8.5"

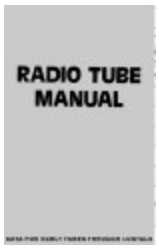
B-377 $14.95

Principles of Electron Tubes

By Herbert J. Reich

First appeared in 1941 as a textbook for beginners studying tube technology. Includes physical concepts, thermionic emission, grid controlled high vacuum tubes, circuit analysis, amplifier design and much more. A must for any library.
398 pgs, 1.5 lbs 6" x 9"

B-693 $34.95



Radio Tube Manual

Reprint of early manual giving data and basing diagrams on tubes from 00A through octals and loctals. Includes types BA and BH, Sparton 182B and 183, and 2 pgs on early Western Electric types. 35 pgs, 0.3 lb 5.25" x 8.5"

B-337 $5.95

Radio Tubes and Boxes of the 1920's

By George A. Fathauer

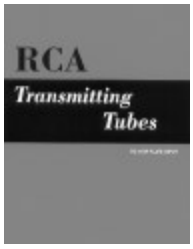
George Fathauer captures the excitement and intrigue of that first decade of home radio through a pictorial presentation of the radio tubes of the era. With over 400 photos and illustrations of early tubes, it shows the colorful packaging and sometimes unusual construction features employed by tube makers to market their products to the public. Collectors and historians alike will appreciate this entertaining way of revisiting the early days of the electronics industry in the United States. 105 pgs, 1 lb 5.25" x 8.25"

B-824 $26.95

RCA Receiving Tube Manual RC-19

A high quality reprint of the 1959 RCA Receiving Tube Manual (Technical Series RC-19). Includes receiving and picture tube characteristics, basing diagrams, and outline drawings. 380 pgs, 1.0 lb 5.25" x 8.25"

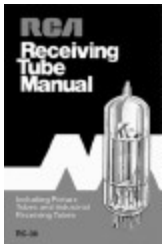
B-654 $12.95



RCA Transmitting Tube Manual

A high quality reprint of the RCA Transmitting Tube Manual TT-5, it includes tubes up to 4kw plate input. Includes technical data, outlines and typical circuits. 316 pgs, 0.9 lb 5.25" x 8.25"

B-676 $13.95



RCA Receiving Tube Manual RC-30

A high quality reprint of the 1973 RCA Receiving Tube Manual (Technical Series RC-30). Includes tubes not found in RC-19, for example: 6CA7/EL34, 5AR4/GZ34, 6DJ8, 6DN7, 6LF6, 6KG6A/EL509, 6550, 7189, 7591 and the 7868 to name a few. Also includes pictures and industrial receiving tubes. 760 pgs, 2.0 lbs 5.25" x 8.25"

B-822 $24.95

Tube Data Book Set

Want all the tube specifications and cross references? Buy the following 4 books and save almost 15%! 3 lbs.

B-377 GE Essential Characteristics
B-654 RCA Receiving Tube Manual (RC-19)
B-825 Tube Substitution Handbook
B-672 Electron Tube Resume

B-DATABOOKS $44.95

Saga of the Vacuum Tube

By Gerald F.J. Tyne

The most comprehensive history of the thermionic vacuum tube. Contains hundreds of photos and essential facts to assist in identifying tubes made prior to 1930, and traces the evolution of tube development with histories of the manufacturers. Truly a classic! 494 pgs, 1.4 lbs. 5.5" x 8.5"

B-376 $17.95

Tube Lore: A Reference for Users and Collectors

By Ludwell Sibley

For the serious tube enthusiast: a collection of tech data, history of design trends, notes on equivalents, stocking-up hints, "where-used" information, etc. Describes regular grided tubes used in radios, audio amplifiers, and communications gear, plus the unique types in radar and other special applications. Includes 30 page chapter on Western Electric. Has material unavailable in conventional tube manuals: hints on identifying, dating, testing, reactivating, etc. Does not have detailed specs or curves. 186 pgs, 1.0 lbs 8.5" x 11"

B-748 $19.95

Tube Substitution Handbook Revised Edition

William Smith and Barry Buchanan

This is the most accurate, up to date guide available to determine direct substitutions for receiving tubes and picture tubes. 149 pgs, 0.5 lbs 6" x 9"

B-825 $19.95

Western Electric Tube Data

Hard-to-find data for 44 Western Electric tube types (205D, 300B, 350B, etc.) popular for audio use and early tube collecting. Includes pictures of tubes and complete operating characteristics and curves. 240 pgs, 1.5 lbs 8.5" x 11"

B-659 $17.95

Videos

Around the Dial Vintage Radios

For those interested in the history, collecting and restoring of classic and antique radios. Volume 1 covers Admiral through Grunow. Volume 2 covers Halton through Zenith. Over 90 manufacturers represented. Each video approximately 1 hour. VHS cassette, 1 lb

Vol. 1 B-V558 $29.95
Vol. 2 B-V559 29.95

How to Service Your Own Tube Amp

By Tom Mitchell

A well-organized and easy-to-understand approach to guitar amplifier repair covering basic electronics, reading schematics, understanding tubes and transformers, tube biasing and use of test equipment. Also provides 10 troubleshooting flowcharts, voltage charts for typical amplifiers, and many modifications that you can do yourself. 250 page manual with accompanying VHS video cassette. 2.5 lbs

B-V578 $69.95

Philco

The story of how Philco began making radios in the late 1920s and became the largest radio manufacturer in the U.S. through the 1930s. Includes a tour of the Philco factory filmed in 1929, showing how a radio goes through production, step-by-step. 28 minutes, VHS cassette. 1.0 lb

B-V613 $19.95

Restoring Pocket Radios

By Eric Wrobbel & Ron Mansfield

This tape will help you restore your transistor radios, enhance their appearance, increase their value, and maybe get them playing again! This video contains over 60 minutes of money-saving insiders' tips and techniques that are guaranteed to help you improve your collection. Digitally recorded and edited, this tape is a must of your collection. 1 lb

B-V680 $24.95

VACUUM TUBE VALLEY

Warning: Once you read one, you'll want them all!

Edited by Charles Kittleson

Very high quality publication for electronic enthusiasts interested in the colorful past, present and future of vacuum tube electronics. All issues still available, get the whole set. Check with us for the new quarterly issues as they come out during the year. Fantastic reading and pictures. All issues are 8.5" x 11"

Issue 1

16 pgs • The early years of Dynaco • Early amplification • Tubes vs. transistors • How to screen tubes • Review of the 12AX7 family of tubes. 0.1 lb.

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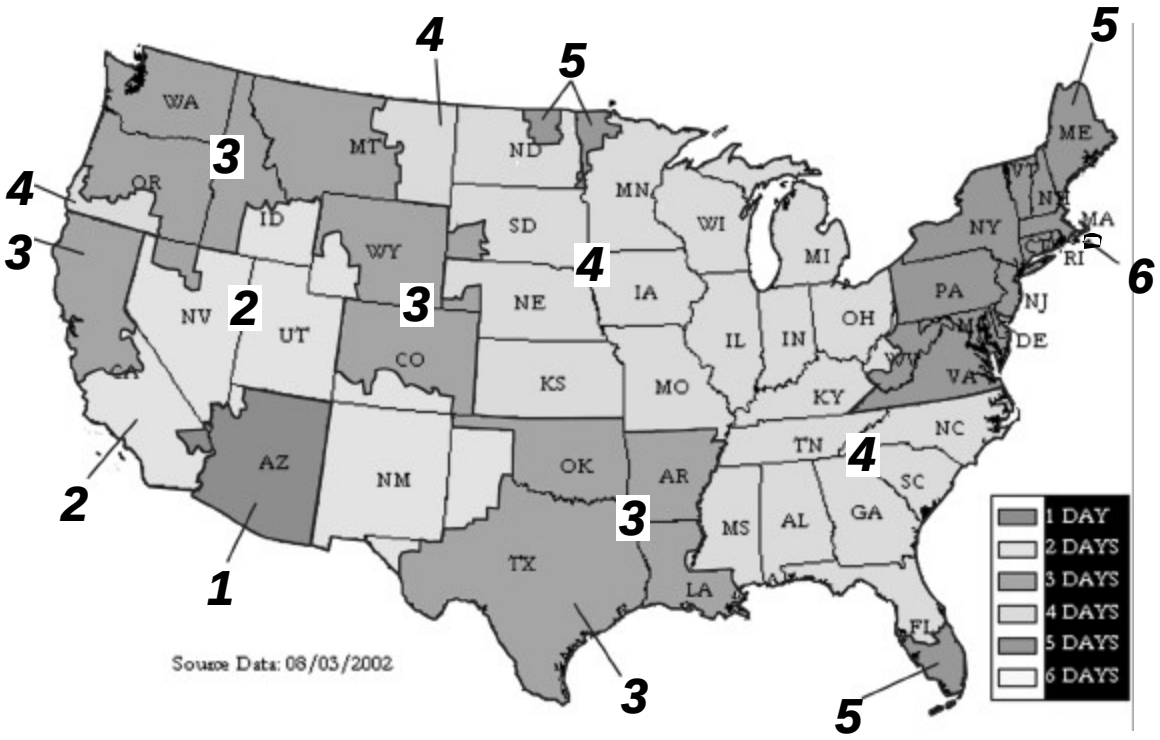

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21-26	8.52	9.05	10.53	13.21	15.55	18.36	46.70
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Thank you very much

To all the people who contributed photos for this catalog!

If we have missed any names we apologize!

James Alex
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J.M. Cherry
Scott Cole
J. Vincent Collins
Constantine Constas
Comércio de Valvulas Valvolandia LTDA
Bill Cook
Skip Davis
Alex Deveza
Mattijs de Vries
Lorren DeLany
Peter den Boer
Thomas Deppermann
Terry DeWick
John Dickman
Steve Dill
Steve Dolan
Joachim Eberle
Anthony Enns
Timothy Fadden
Chris Fanjoy
L. Dwight Farringer
Thomas F. Fischel, K0PJG
Verne Folk
H. P. Friedrichs
Steve Geiger
Kit Glischinski
William S. Granger
Steve Greve
Danny Gullick
John Gumb
E. E. Haller
Len Halvorsen
Christian Hammond
William Harlan
Richard Hassebrock
Terry Hauck
Eric Hayes
Chet Heath
Robert Heman
Dean Hemphill, K5DH
Keith Hibberd
Art Hoch
Reinhard Hoffmann
John Homer
William L. Howard
Nigel Hulse
Paul Hultz
Aaron Hunter
Claus Jäckle
John Jenkins
Tom Jennings
Clark Jillson, KB9SJD
Milt Johnson
Ivan Johnston
Steve Johnston, WD8DAS
Josh Jones
Steve Jones
Charlie Joseph
Ken Kaplan
Bruce Kas
Richard Kenny
Ron Kimble
Laura King
Bill Kos
Michael P. Kosty
Ernst A. Kuhlmann
Willy Kunz
J.C. Lacrouts
J. LaPointe
Norman R. Leal
Don Lemley, W8DL
Robert H. Lever
Rob Lewis
Michael Losonsky
Ken Lotts, AA7JC
Charles MacDonald
Mark P. MacWilliams
Luca Marcolina
Steve Marquie, W8TOW
Bill Marx, W2CQ
Luigi Massarotto
John May, K6MAY
Craig McCartney, WA8DRZ
Chris McColm
Jason McGuire
Kevin McQuiggin
Alfredo Meurer Jr.
Jim Miers
John Mill
Peter Millett
David Minie
Dave Mizuno
Joseph G. Moran
Shuichi Moriya
Camil Moujaber
Shea Moxon
Fred Nachbaur
Frode Næss
Andy Newell
John Noll
Imro Nooitmeer
Dave Noon, VA3DN
Tobias Öhman
Eduard Orvisky
Peter H. Palmer
John Pan
Andrew Parsons
Gil Parsons
Michael Passareas
David Patterson
Keith Patterson
Lloyd Peppard
Alex Perez
Chris Perez
Pete Petersen WY7Z
Jean-Claude Pigeon
Eric Pinchin
Gary Poland
Kenton Porter
Mike Radochay
Earl Raeburn
John Rehwinkel, KG4L
John Reinicke
George Rigney
Max Robinson
David Garrido Robles
Sigifredo Rodriguez
Daev Roehr
Sam Rotundo
Barry Rowan
Oscar Vazquez Sanchez
Toshihiro Sasai
Felix A. Schaffhauser
Kris Shanks
Nick Schaub
George Schloss
Lowell Schultz
Dr. Andreas Schwarz
Walter Shawlee
Stephen Shedd
John Sheerin
Jan Skirrow
David Smith
Michael Smith, NØXY
Mathias Spaeh
Andrew Stambaugh
Scott Stambaugh
Doug Stalters
Roger Stevens, WA3FLE
Sheldon D. Stokes
John Stott, AC5ZT
Harry Straub
Bernhard Sturm
Ralf Suertenich
Ann Chang Sun
Ron Sutherland
R. Swan
Bob Sweeney
Dave Sweet
Tommy Tamura
Fred Temple, KN8AZN
Tom Thomson, W9CHP
Craig Tipton
John Tomich
Hideo Torii
Steve Tuorto
Valter A. Turim, PY2ATW
Donald E. Turner
Rudy Vanclaire
Pouwel van den Berg
Steven L. VanderLinden
Larry Vanderbeke
Don Van Diepen
Bruce Vaughan, NR5Q
K.T. Velu
Chris Vogel
Julio Walter
David Wang
Ross Warren
Vern A. Weiss, W9STB
Buddy White
Tim M. Williams
Ed Yeakel
Jonathan Yeakel
Richard L. Young
John Younkin
Zubair

Speaker Cloth

Custom made to duplicate early radio speaker cloth. Colors may vary somewhat due to different lots and fabrics used. Sold in 10" x 12" pieces or by the foot (see bottom for widths) in increments of 6" after the first 12". If you would like a small sample to evaluate before making your purchase, they are available: first two are free, $0.75 each after that. A package of one sample of each cloth may be ordered. Part # S-GSRI, $10.00. (saves $5.00)

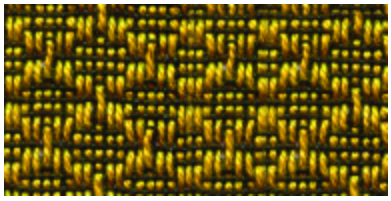
Cloth Widths

All grill cloth is sold in 10" x 12" pieces. This is the first part # and price. The second part # and price is by the foot.
1 - 24" width
2 - 30" width
3 - 23" width

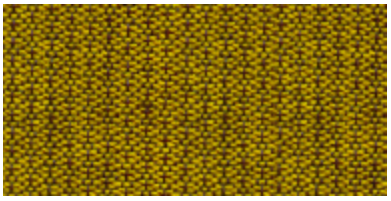
Grill Cloth Assortment

12" x 18" of modern grill cloth. Eight assorted patterns, our choice. While Supplies Last
S-G114 $12.00

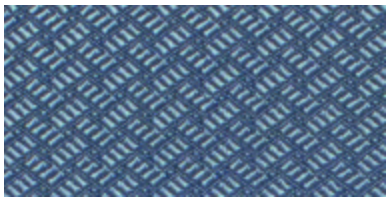
S-G430 $22.95/ft
31" appx. width. Sold only by the foot due to the pattern. Has two chevron widths appx. 12" and 19" wide



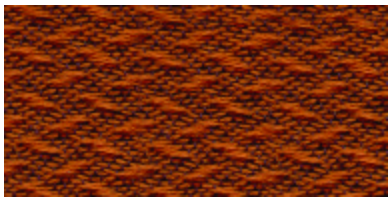
S-G115 $12.00ea S-G115F [2] 20.95/ft



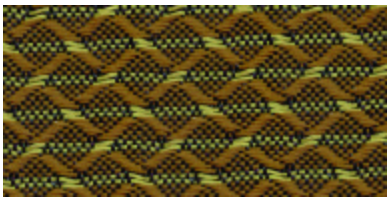
S-G129 $12.50ea S-G129F [2] 21.95/ft



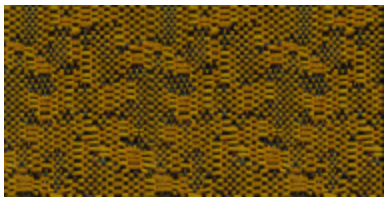
S-G426 $7.50ea S-G426F [1] 14.00/ft
Same pattern as the S-G432, but in silver. Made for Emerson and Deco Models



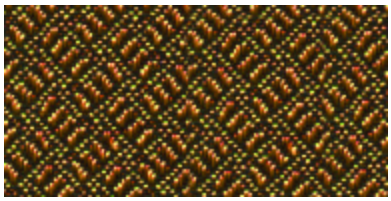
S-G427 $12.50ea S-G427F [2] 21.95/ft



S-G429 $7.50ea S-G429F [1] 14.00/ft
Philco Model 60 for years 1934, 1935 and early 1936. (see S-G440 for late 1936+)

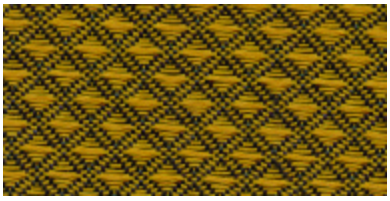


S-G431 $8.00ea S-G431F [1] 15.00/ft
Philco Models 70, 90, 89, 10; Zenith Models 8-S-463, 9-S-367; Grunow, Crosley and other models from the late 1930's

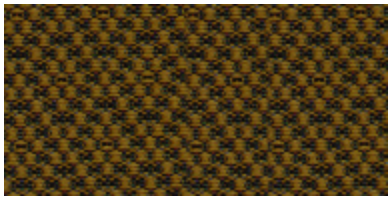


S-G432 $7.50ea S-G432F [1] 14.00/ft
For Emerson Models

S-G434 $8.00ea S-G434F [1] 15.00/ft
RCA 100A Speaker

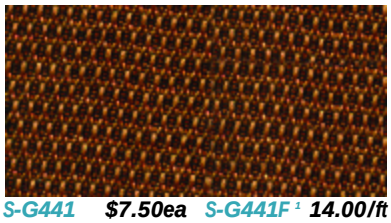


S-G435 $7.50ea S-G435F [1] 14.00/ft
RCA, GE and Westinghouse models

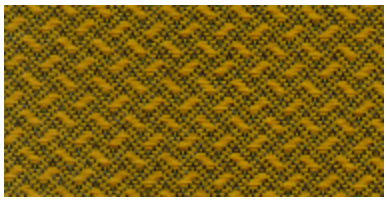


S-G436 $8.00ea S-G436F [1] 15.00/ft

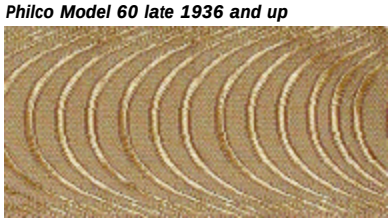
S-G440 $8.00ea S-G440F [1] 15.50/ft
Philco Model 60 late 1936 and up



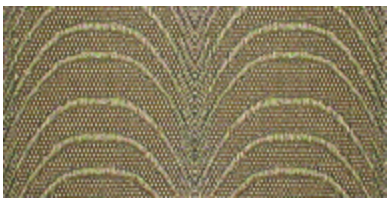
S-G441 $7.50ea S-G441F [1] 14.00/ft
Philco 84



S-G959 $7.50ea S-G959F [1] 14.00/ft
Zenith consoles from the late 1930's

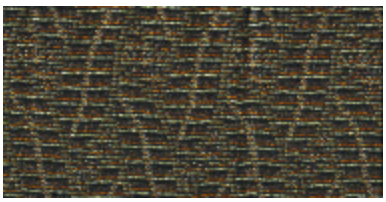


S-G960 $8.00ea S-G960F [1] 15.00/ft

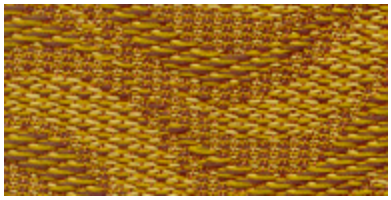


S-G961 $8.00ea S-G961F [1] 15.00/ft
Smaller Zenith consoles from the late 1930's

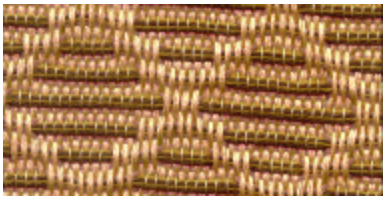
S-G963 $8.00ea S-G963F [1] 15.00/ft
Zenith, Fada, Silvertone from the 1930's



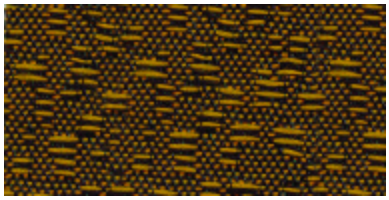
S-G964 $8.00ea S-G964F [1] 15.00/ft
Deco looking consoles from 1937 Zenith leaf design



S-G965 $9.00ea S-G965F [1] 16.00/ft
Zenith swirl, Shutterdale and Walton, Tombstone Sets. Reversible

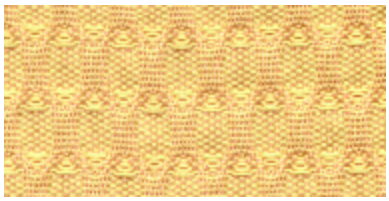


S-G966 $8.50ea S-G966F [1] 15.50/ft
Philco Diamond for models from late 1939 and 1940



S-G967 $7.50ea S-G967F [3] 14.00/ft
Zenith consoles from the 1940's

S-G969 $7.50ea S-G969F [1] 14.00/ft

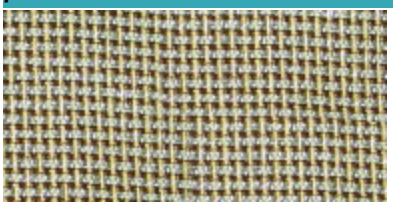


S-G970 $8.00ea S-G970F [1] 15.00/ft

S-G971 $12.50ea S-G971F [2] 22.95/ft

Grill Cloth

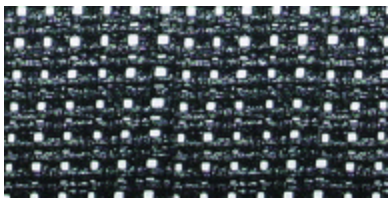
Replacement grill cloth as found on Fender and other vintage guitar amps. Cloth is 34" high. Order enough to cover the width of your cabinet, plus a bit for frayed edges. Sold per linear foot. Note: The exact coloring and patterns of the grill cloth are very hard to reproduce. If you would like a small sample to evaluate before making your purchase, they are available: first two are free, $0.75 each after that. You may order a packet of grill cloth samples for $5.00 (this saves $2.50). The part number is S-GSG-1.



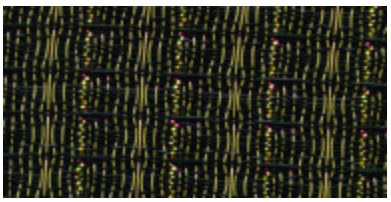
Black/Tan Weave S-G295 $8.00/ft

Black Basket S-G296 $9.00/ft

Brown Basket S-G297 $9.00/ft

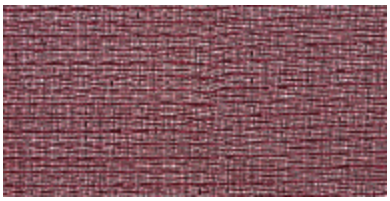


Black Waffle S-G299 $8.00/ft

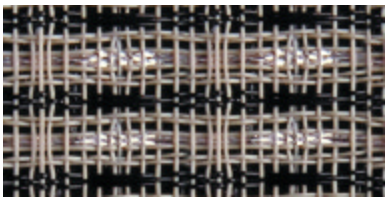


Black/Gold S-G300 $9.00/ft

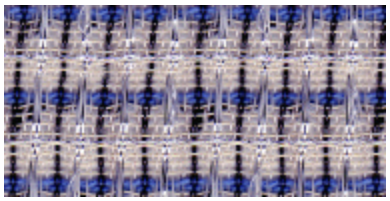
Oxblood/Yellow S-G301 $8.00/ft



Oxblood S-G302 $8.00/ft



Black/Silver/Gray S-G303 $9.25/ft



Blue/Black/Silver/White S-G304 $9.95/ft

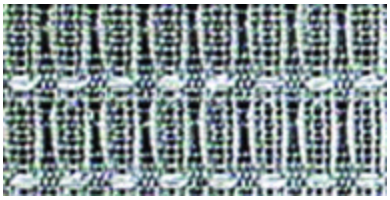
Cabinet Covering

Replacement cabinet covering for Fender and other popular guitar amps. Tolex is 54" wide, Tweed is 64" wide. Sold per linear foot. See page 82 for spray adhesive and glue.

Tweed
S-G305 $11.00/ft

Black Tolex
S-G306 $11.00/ft

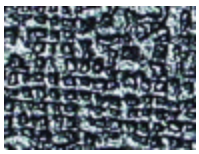
Cream Tolex- Fender®
S-G307 $12.95/ft



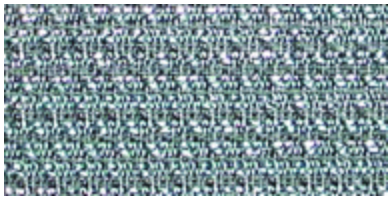
Black/Silver- Ampeg S-G293 $9.95/ft

Brown Tolex- Fender®
S-G308 $12.95/ft

Diamond Blue- Ampeg
S-G309 $12.50/ft



Nubby Tweed- Ampeg
S-G310 $12.50/ft



Blue SVT- Ampeg S-G294 $9.95/ft

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